

**ThinkCentre®**

# *Personal Systems Reference Lenovo ThinkCentre Desktops*

*January 2009 - Version 350*



Lenovo ThinkCentre M58p Eco Ultra Small  
with ThinkVision 2440x Wide monitor

**lenovo.com**

Customers and employees can receive notification of each release via a distribution list by sending their e-mail address to [rdodson@lenovo.com](mailto:rdodson@lenovo.com)



Lenovo ThinkCentre M57e Small



Lenovo ThinkCentre M57e Small



Lenovo ThinkCentre M57e Desktop



Lenovo ThinkCentre M57e Desktop with Lenovo ThinkVision monitor



Lenovo ThinkCentre M57e Tower



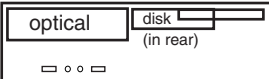
Lenovo ThinkCentre M57e Tower with dual Lenovo ThinkVision monitors

# ThinkCentre® M57e Small (6305) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Preload	Vista logo	Global Educ	Avail date
M57e	6305-B1U	2x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro		None	Jun 08
M57e	6305-B2U	2x3	Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	XP Pro		None	Jun 08
M57e	6305-B4U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD	GMA	XP Pro		None	Jun 08
M57e	6305-B3U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD±RW	GMA	XP Pro		None	Jun 08
M57e	6305-B5U	2x3	Core 2 Duo E8400	3.00	6MB	Dual	2GB	160GB	DVD±RW	GMA	XP Pro		None	Jun 08
M57e	6305-B6U	2x3	Core 2 Quad Q6600	2.40	8MB	Quad	2GB	160GB	DVD±RW	GMA	XP Pro		None	Jun 08
ES	M57e	6305-B7U	Pentium E2200	2.20	1MB	Dual	1GB	160GB	DVD	GMA	Business32	Premium	None	Sep 08
ES	M57e	6305-B8U	Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	Business32	Premium	None	Sep 08
ES	M57e	6305-B9U	Core 2 Quad Q6600	2.40	8MB	Quad	2GB	160GB	DVD±RW	GMA	Business32	Premium	None	Sep 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Stability and manageability for small and medium businesses</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or</p> <p><b>Intel Core™ 2 Duo Processor E7200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB L2 cache or</p> <p><b>Intel Core 2 Duo Processor E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB L2 cache or</p> <p><b>Intel Core 2 Quad Processor Q6600</b> with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 8MB L2 cache</p> <p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	<p><b>Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader/diskette)</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)                  Slot 2: Low Profile, 32-bit PCI 2.3</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>																								
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket																									
Memory	<p><b>1GB or 2GB std.</b>, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in both sockets; no sockets avail;</p> <p><i>Non-italics:</i> standard memory in one socket; one socket available</p>																									
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>																									
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																									
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)																									
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																									
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																									
eSATA port	None																									
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar																									
Diskette drive	None																									
Media reader	None																									
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus /</p> <p>ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																									
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																									
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																									
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec																									
Speaker	One internal speaker for business audio																									
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>																									
Intel AMT	None																									
Modem	None																									
Security chip	None																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																									
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																									
Power supply	280 watts with variable speed fan, autosensing																									
<b>Preloaded operating system<sup>20</sup></b>	<p>- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA</p> <p>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</p>																									
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™</li> <li>• Diskkeeper® Home</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> </ul>	<p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4984</td> </tr> <tr> <td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4985</td> </tr> <tr> <td>1GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2977</td> </tr> <tr> <td>2GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2978</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>ThinkVision® L2440p Wide 24" Monitor</td> <td>4420HB2</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> <tr> <td>ADD2 DVI-I PCIe Connection Adapter</td> <td>73P2516</td> </tr> <tr> <td>ADD2 DVI-D Monitor Connection (HDCP)</td> <td>43R1985</td> </tr> <tr> <td>ATI™ Radeon™ HD 2400 Pro 128MB</td> <td>43R1961</td> </tr> <tr> <td>ATI Radeon HD 2400 XT 256MB</td> <td>43R1962</td> </tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>                  Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	USB 2.0 Lenovo Multimedia Headset	40Y8518	ThinkVision® L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-I PCIe Connection Adapter	73P2516	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984																									
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ADD2 DVI-I PCIe Connection Adapter	73P2516																									
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																									
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961																									
ATI Radeon HD 2400 XT 256MB	43R1962																									
		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>																								

See footnotes for important warranty information

ES US models announced August 19, 2008; previous models on June 24, 2008

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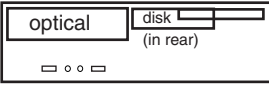


# ThinkCentre® M57e Small (6305) - TopSeller (October 2008)

Personal Systems Reference (PSREF)

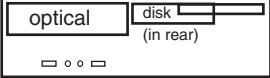
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Preload	Vista logo	Global Educ	Avail date
<b>M57e</b>	6305-BBU	2x3	Pentium E5200	2.50	2MB	2	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6305-BCU	2x3	Pentium E5200	2.50	2MB	2	2GB	160GB	DVD±RW	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6305-BEU	2x3	Core 2 Duo E7300	2.66	3MB	2	1GB	160GB	DVD	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6305-BDU	2x3	Core 2 Duo E7300	2.66	3MB	2	2GB	160GB	DVD±RW	GMA	XP Pro	Premium	None	Nov 08

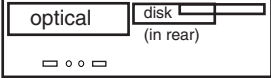
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Stability and manageability for small and medium businesses</i> <b>Intel® Pentium® Dual-Core Processor E5200</b> with <b>dual-core</b> , 800MHz system bus, and 2MB L2 cache or <b>Intel Core™ 2 Duo Processor E7300</b> with <b>dual-core</b> , 1066MHz system bus, and 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Small</b>	 <p>optical disk (in rear)</p>
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		
Memory	<b>1GB</b> or <b>2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> Supports ThinkVantage® technologies RoHS-compliant <b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosenesing		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
↕ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
<b>Preloaded applications<sup>5</sup></b>	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
• Client Security Solution™	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• ThinkVantage System Update	USB Portable Diskette Drive	05K9276	
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset	40Y8518	
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Webcam	40Y8519	
• Diskkeeper® Home	USB 2.0 Essential Memory Key 32GB	45K1258	
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
• Windows Live™ Toolbar	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
• Windows Live Search	ThinkVision® L1940p Wide 19" Monitor	4424HB6	
• Picasa from Google	ThinkVision L2240p Wide 22" Monitor	4422HB6	
• Microsoft Office 2007 Trial (60-day)	ThinkVision L2440p Wide 24" Monitor	4420HB2	
• Multimedia Center for Think Offerings (DVD, DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
• Corel® WinDVD® (DVD, DVD±RW)	Kensington Cable Lock from Lenovo	73P2582	
• Corel WinDVD Creator (DVD±RW)	ADD2 DVI-I PCIe Connection Adapter	73P2516	
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1985	
	ATI Radeon HD 2400 XT 256MB	43R1961	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	43R1962	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information  
US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9482-BGU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro	3-yr		Mar 08
M57e	9482-BHU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr		Mar 08
M57e	9482-BKU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	DVD	GMA	XP Pro	3-yr		Mar 08
M57e	9482-BJU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr		Mar 08
M57e	9482-BLU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr	K12	Mar 08
M57e	9482-BMU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr	HE	Mar 08
M57e	9482-BPU	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	DVD	GMA	XP Pro	3-yr		Mar 08
M57e	9482-BNU	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr		Mar 08
M57e	9482-DAU	2x3	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr		Mar 08

Positioning	<b>Mainstream enterprise stability and manageability</b>	
Processor	<b>Intel® Pentium® Dual-Core Processor E2160 with dual-core,</b> Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500 with dual-core,</b> Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550 with dual-core,</b> Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 4MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 with dual-core,</b> Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Small</b>  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)
Implementation	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
Memory	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2,</b> non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100),</b> integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	
SATA disk	<b>160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</b> Serial ATA, SATA 3.0Gb/s, integrated in ICH7 <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618) <i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on planar	
SATA DVD	None	
SATA Combo	None	
SATA cables	None	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset;</b> I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosenesing	



- Business black color; metal case
- 12.5" W X 14.0" D X 3.9" H
- 317mm W X 355mm D X 99mm H
- 16.1 lb (7.3 kg) in maximum configuration
- Bays 1, 2, 3 flip up (latched and pivoting)
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk, diskette drive, optical drive removal
- Toolless adapter retention
- Toolless systemboard retention
- Steel chassis supports 100 lb (45kg) monitor on top
- System floor stand for vertical orientation

**Security**

- Security slot (in rear for attachment of optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)  
 - optional cable also locks the cover by deactivating the cover release buttons
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- Parallel port I/O control
- USB port disablement

Supports ThinkVantage<sup>®</sup> technologies

RoHS-compliant

**Limited Warranty<sup>1</sup>**

- ↪ 3-year parts and labor
- ↪ International Warranty Service<sup>9</sup>
- ↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- ↪ Onsite service upgrade options (in eligible locations):<sup>7</sup>
  - 3-year LOR 9x5, 4 hour response (ThinkPlus<sup>™</sup> part number 41C9192)
  - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
  - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
  - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
  - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ↪ ThinkPlus services at [lenovo.com/thinkplus/warranty](http://lenovo.com/thinkplus/warranty)
- ↪ Post warranty maintenance services available
- ↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

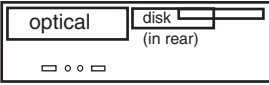
Preloaded operating system <sup>20</sup>	Accessories	
- Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional with Vista <sup>®</sup> COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
↪ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
	1GB PC2-6400 NP DDR2 UDIMM	41U2977
	2GB PC2-6400 NP DDR2 UDIMM	41U2978
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
<b>Preloaded applications<sup>5</sup> (only some listed)</b>	USB 2.0 Lenovo Multimedia Headset	40Y8518
• <i>Some (K12):</i> K-12 education software	USB 2.0 Essential Memory Key 32GB	45K1258
- VitalSource Library School Edition	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
- Adobe <sup>®</sup> Instructor Resource Center	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
- Adobe Digital School Collection	Super Multi-Burner DL DVD±RW SATA Drive	41N5620
- Photoshop Elements 5 (and CD)	ThinkVision <sup>®</sup> L2440p Wide 24" Monitor	4420HB2
- Premier Elements 3 (and DVD)	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
- Acrobat 8 Professional (and CD)	Kensington Cable Lock from Lenovo	73P2582
- Contribute 4 (and CD)	ADD2 DVI-I PCIe Connection Adapter	73P2516
• <i>Some (HE):</i> Higher education software	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
- VitalSource Library College Edition	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB	43R1961
- Adobe Instructor Resource Center	ATI Radeon HD 2400 XT 256MB	43R1962
- Adobe Photoshop Elements 5 (and CD)	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
- Adobe Premier Elements 3 (and DVD)	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
• Rescue and Recovery <sup>™</sup>		

See footnotes for important warranty information  
 Ⓜ US models announced March 18, 2008; previous models on February 26, 2008  
 Ⓜ US models withdrawn effective September 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9482-HJU	2x3	Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro	3-yr	None	Sep 08
M57e	9482-HKU	2x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB	DVD	GMA	XP Pro	3-yr	None	Sep 08
M57e	9482-HLU	2x3	Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	XP Pro	3-yr	None	Sep 08
M57e	9482-HHU	2x3	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD	GMA	XP Pro	3-yr	None	Sep 08
M57e	9482-HFU	2x3	Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	DVD±RW	GMA+ADD2	XP Pro	3-yr	None	Sep 08
M57e	9482-HGU	2x3	Core 2 Duo E7300	2.66	3MB	Dual	2GB	160GB	DVD	GMA	XP Pro	3-yr	None	Sep 08

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or <b>Intel Core™ 2 Duo Processor E7200 or E7300</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache	<b>Small</b>  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available	Slot 1: Low Profile, PCI Express x16 (35w max)* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-D Monitor Connection (HDCP)</b> , PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> Supports ThinkVantage® technologies RoHS-compliant
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing	

Preloaded operating system <sup>20</sup>	Accessories	
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
⚡ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
<b>Preloaded applications<sup>5</sup></b>	1GB PC2-6400 NP DDR2 UDIMM	41U2977
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM	41U2978
• Client Security Solution™	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• ThinkVantage System Update	USB Portable Diskette Drive	05K9276
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset	40Y8518
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Webcam	40Y8519
• Diskeeper® Home	USB 2.0 Essential Memory Key 32GB	45K1258
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB	45J5916
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 4GB	45J5917
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
• Windows Live Search	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
• Picasa from Google	ThinkVision® L2240p Wide 22" Monitor	4422H86
• Microsoft Office 2007 Trial (60-day)	ThinkVision L2440p Wide 24" Monitor	4420H82
• Multimedia Center for Think Offerings (DVD, DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074
• Corel® WinDVD® (DVD, DVD±RW)	Kensington Cable Lock from Lenovo	73P2582
• Corel WinDVD Creator (DVD±RW)	ADD2 DVI-I PCIe Connection Adapter	73P2516
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961
	ATI Radeon HD 2400 XT 256MB	43R1962
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

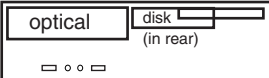
  

Limited Warranty <sup>1</sup>
<ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>

See footnotes for important warranty information  
US models announced August 19, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9482-AUU	2x3	Celeron 420	1.60	512KB	Single	1GB	160GB <sup>2</sup>	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AAU	2x3	Celeron 430	1.80	512KB	Single	1GB	80GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-ABU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	80GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-ACU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	80GB	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AVU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AWU	2x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-ADU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	80GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AEU	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	80GB	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-B1U	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-B2U	2x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AFU	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	80GB	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-AGU	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	80GB	DVD±RW	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-B6U	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9482-B5U	2x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	Combo	GMA	Bus32	3-yr	None	Mar 08

Positioning	<i>Mainstream enterprise stability and manageability</i>	
Processor	<p><b>Intel® Celeron® Processor 420 or 430</b> with single-core, Intel 64 Technology, EDBit, 800MHz bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket</p>	<p><b>Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader/diskette)</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)                  Slot 2: Low Profile, 32-bit PCI 2.3</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
Implementation		
Memory	<p><b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; one socket available</p>	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>	
SATA disk	<p><b>80GB or 160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>	
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH7</p>	
SATA DVD	<p><i>Some</i>: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>	
SATA Combo	<p><i>Some</i>: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive</p>	
SATA DVD±RW	<p><i>Some</i>: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>	
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors on planar</p>	
eSATA port	<p>None</p>	
EIDE controller	<p>Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar</p>	
Diskette drive	<p>None</p>	
Media reader	<p>None</p>	
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>	
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>	
Rear ports	<p>Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</p>	
Internal connector	<p>Two USB 2.0 planar connectors (one used; one open for media reader)</p>	
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)</p>	
Audio	<p>High Definition (HD) Audio, Realtek<sup>®</sup> ALC662 codec</p>	
Speaker	<p>One internal speaker for business audio</p>	
Ethernet	<p>Gigabit ethernet on planar, Marvell<sup>®</sup> 88E8056, PCIe x1, Wake on LAN<sup>®</sup></p>	
Intel AMT	<p>None</p>	
Modem	<p>None</p>	
Security chip	<p>None</p>	
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>	
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>	
Power supply	<p>280 watts with variable speed fan, autosenesing</p>	
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft<sup>®</sup> Windows<sup>®</sup> Vista Business Edition (32-bit)                  ♦ Vista Basic logo</p>	
<b>Preloaded applications<sup>5</sup></b> (only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery<sup>™</sup></li> <li>• Client Security Solution<sup>™</sup></li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security<sup>™</sup></li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (combo, DVD, DVD±RW)</li> </ul>	<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>ThinkVision<sup>®</sup> L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> </ul> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>
		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> <p>Supports ThinkVantage<sup>®</sup> technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup></li> </ul>

See footnotes for important warranty information  
 US models announced February 19, 2008  
 ⚡ US models withdrawn effective September 2008

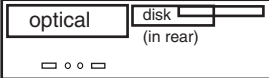


# ThinkCentre® M57e Small (9482) - Vista® (March 2008)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Floor stand	Vista preload	Vista logo	Global Educ	Avail date
Ⓜ	<b>M57e</b> 9482-B8U	2x3	Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	Stand	Bus32	Basic		Sep 08
	<b>M57e</b> 9482-E9U	2x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB	Combo	GMA	Stand	Bus32	Basic	Gbl	Mar 08
Ⓜ	<b>M57e</b> 9482-FLU	2x3	<b>Core 2 Duo E4500</b>	<b>2.20</b>	<b>2MB</b>	<b>Dual</b>	<b>1GB</b>	<b>160GB</b>	<b>Combo</b>	<b>GMA</b>	<b>Stand</b>	<b>Bus32</b>	<b>Basic</b>	<b>Gbl</b>	<b>Apr 08</b>
	<b>M57e</b> 9482-FAU	2x3	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	Combo	GMA+ADD2		Bus32	Basic	Gbl	Mar 08
	<b>M57e</b> 9482-DBU	2x3	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Combo	GMA	Stand	Bus32	Basic		Mar 08
	<b>M57e</b> 9482-FBU	2x3	Core 2 Duo E8400	3.00	6MB	Dual	2GB	250GB	DVD±RW	GMA+ADD2		Bus32	Prem	Gbl	Mar 08

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500 or E4600</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 or E8400</b> with <b>dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Small</b> 
Implementation		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette) Slot 1: Low Profile, PCI Express x16 (35w max)* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• <i>Some:</i> system floor stand for vertical orientation</li> </ul>
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-I PCIe Connection Adapter</b> , PCI Express <sup>®</sup> adapter in PCIe x16 slot, provides DVI-I connector to support second monitor, no DVI-to-VGA dongle	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>➤ <b>3-year parts and labor</b></li> <li>➤ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>➤ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>➤ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>➤ <b>Post warranty maintenance services available</b></li> <li>➤ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-I in some models)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	
- Microsoft® Windows® Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984	
	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985	
	1GB PC2-6400 NP DDR2 UDIMM 41U2977	
	2GB PC2-6400 NP DDR2 UDIMM 41U2978	
	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
	USB 2.0 Lenovo Multimedia Headset 40Y8518	
	USB 2.0 Lenovo Webcam 40Y8519	
	USB 2.0 Essential Memory Key 32GB 45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB 45J5918	
	USB 2.0 Portable Secure 320GB Hard Disk 43R2019	
	ThinkVision® L1940p Wide 19" Monitor 4424HB6	
	ThinkVision L2240p Wide 22" Monitor 4422HB6	
	ThinkVision L2440p Wide 24" Monitor 4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067	
	Kensington Cable Lock from Lenovo 73P2582	
	ADD2 DVI-I PCIe Connection Adapter 73P2516	
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961	
	ATI Radeon HD 2400 XT 256MB 43R1962	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
<b>Preloaded applications<sup>5</sup> (only some listed)</b>		
• <i>Some:</i> Education software		
- VitalSource Library College Edition		
- Adobe® Instructor Resource Center		
- Adobe Digital School Collection		
- Photoshop Elements 6 (and CD)		
- Premier Elements 4 (and DVD)		
- Acrobat 8 Professional (and CD)		
- Contribute 4 (and CD)		
• Rescue and Recovery™		
• Client Security Solution™		
• ThinkVantage Productivity Center		
• ThinkVantage System Update		
• Norton Internet Security™		
• Diskeeper® Home		
• Microsoft Office 2007 Trial (60-day)		
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)		
• Corel® WinDVD® (combo, DVD±RW)		

See footnotes for important warranty information

Ⓜ US model announced August 19, 2008; previous models on March 18 or March 25, 2008

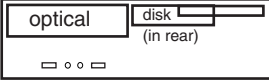
Ⓜ US model withdrawn effective September 2008

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Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
<b>M57e</b>	9482-H1U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	Business32	Basic		Jul 08
<b>M57e</b>	9482-F9U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD±RW	GMA	Business32	Basic	Educ	Jul 08
<b>M57e</b>	9482-HCU	2x3	Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	DVD±RW	GMA	Business32	Premium	Educ	Sep 08

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E7200 or E7300</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache		<b>Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket			
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		Bay ② 3.5", 1" high, no access, std disk	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Bay ③ 3.5", .5" high, access, open (reader/diskette)	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		Slot 1: Low Profile, PCI Express x16 (35w max)	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		Slot 2: Low Profile, 32-bit PCI 2.3	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		• Business black color; metal case	
eSATA port	None		• 12.5" W X 14.0" D X 3.9" H	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector		• 16.1 lb (7.3 kg) in maximum configuration	
Diskette drive	None		• Bays 1, 2, 3 flip up (latched and pivoting)	
Media reader	None		• Toolless cover flips up and tilts backward on rear hinges	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		• Toolless disk, diskette drive, optical drive removal	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		• Toolless adapter retention	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		• Toolless systemboard retention	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		• Steel chassis supports 100 lb (45kg) monitor on top	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		• System floor stand for vertical orientation	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosenesing			
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit)			
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• <i>Some</i>: Education software</li> <li>- VitalSource Library College Edition</li> <li>- Adobe<sup>®</sup> Instructor Resource Center</li> <li>- Adobe Digital School Collection                             <ul style="list-style-type: none"> <li>- Photoshop Elements 6 (and CD)</li> <li>- Premier Elements 4 (and DVD)</li> <li>- Acrobat 8 Professional (and CD)</li> <li>- Contribute 4 (and CD)</li> </ul> </li> <li>• Rescue and Recovery<sup>™</sup></li> <li>• Client Security Solution<sup>™</sup></li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security<sup>™</sup> (90 days of virus definitions)</li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• PC-Doctor<sup>™</sup> (diagnostics)</li> <li>• Adobe Reader</li> <li>• Windows Live<sup>™</sup> Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (DVD±RW)</li> </ul>			
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision<sup>®</sup> L1700p 17" Monitor 9417HE2</li> <li>ThinkVision L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		Supports ThinkVantage <sup>®</sup> technologies	
			RoHS-compliant	
				<b>Limited Warranty<sup>1</sup></b>
				<ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>

See footnotes for important warranty information

<sup>18</sup> US model announced August 19, 2008; previous models on June 24, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
M57e	9482-H8U	2x3	Pentium E5200	2.50	2MB	2	1GB	160GB <sup>2</sup>	DVD	GMA	Business32	Premium	None	Nov 08
M57e	9482-H9U	2x3	Pentium E5200	2.50	2MB	2	1GB	160GB	DVD±RW	GMA	Business32	Premium	None	Nov 08
M57e	9482-J1U	2x3	Pentium E5200	2.50	2MB	2	2GB	160GB	DVD±RW	GMA	Business32	Premium	None	Nov 08

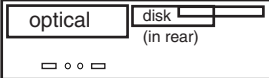
• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning	<i>Mainstream enterprise stability and manageability</i>		<b>Small</b>	
Processor	<b>Intel® Pentium® Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache Processor in FC-LGA6 package in LGA775 socket			
Implementation	Processor in FC-LGA6 package in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Memory	<b>1GB</b> or <b>2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618) SATA DVD±RW <i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620) SATA cables Two SATA cables (each 1-drop to device), two SATA connectors eSATA port None EIDE controller Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector Diskette drive None Media reader None			
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosenesing			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b> 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision <sup>®</sup> L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>			
	Supports ThinkVantage <sup>®</sup> technologies			
	RoHS-compliant			
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery<sup>™</sup></li> <li>• Client Security Solution<sup>™</sup></li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security<sup>™</sup> (90 days of virus definitions)</li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• PC-Doctor<sup>™</sup> (diagnostics)</li> <li>• Adobe<sup>®</sup> Reader</li> <li>• Windows Live<sup>™</sup> Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (DVD, DVD±RW)</li> </ul>			
	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>			

See footnotes for important warranty information  
 US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	ENERGY STAR 4.0	Floor stand	Vista preload	Vista logo	Global Educ	Avail date
M57e	9487-ADU	2x3	Core 2 Duo E4600	2.40	2MB	Dual 1GB	160GB <sup>2</sup>	Combo	GMA	ES40	Stand	Bus32	Basic	Gbl	Mar 08
M57e	9487-AFU	2x3	Core 2 Duo E4600	2.40	2MB	Dual 1GB	160GB	Combo	GMA+ADD2	ES40		Bus32	Basic	Gbl	Mar 08
M57e	9487-AEU	2x3	Core 2 Duo E8200	2.66	6MB	Dual 1GB	160GB	Combo	GMA	ES40	Stand	Bus32	Basic	Gbl	Mar 08
M57e	9487-AGU	2x3	Core 2 Duo E8400	3.00	6MB	Dual 2GB	250GB	DVD±RW	GMA+ADD2	ES40		Bus32	Prem	Gbl	Mar 08

• **These models have a 3-year limited warranty<sup>1</sup>**

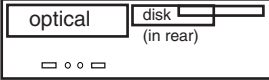
Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E4600 with dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 or E8400 with dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		<b>Small</b> 
Implementation	1GB or 2GB std, 4GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		
Memory	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-I PCIe Connection Adapter</b> , PCI Express <sup>®</sup> adapter in PCIe x16 slot, provides DVI-I connector to support second monitor, no DVI-to-VGA dongle		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)  Slot 1: Low Profile, PCI Express x16 (35w max) <sup>*</sup> Slot 2: Low Profile, 32-bit PCI 2.3  * used in some models <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• <i>Some:</i> system floor stand for vertical orientation</li> </ul>
Graphics	SATA disk <b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening SATA controller Serial ATA, SATA 3.0Gb/s, integrated in ICH7 <i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620) SATA cables Two SATA cables (each 1-drop to device), two SATA connectors on planar eSATA port None EIDE controller Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar Diskette drive None Media reader None		
SATA disk	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions		<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> Supports ThinkVantage® technologies  EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant
SATA controller	SATA Combo <i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620) SATA cables Two SATA cables (each 1-drop to device), two SATA connectors on planar eSATA port None EIDE controller Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar Diskette drive None Media reader None		
SATA Combo	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-I in some models)		<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA DVD±RW	Two USB 2.0 planar connectors (one used; one open for media reader) Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Audio High Definition (HD) Audio, Realtek® ALC662 codec Speaker One internal speaker for business audio Ethernet Gigabit ethernet on planar, Marvel® 88E8056, PCIe x1, Wake on LAN® Intel AMT None Modem None Security chip None		
SATA cables	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 80% PSU		
eSATA port	<b>Preloaded operating system<sup>20</sup></b> - Microsoft® Windows® Vista® Business Edition (32-bit)		
EIDE controller	<b>Accessories</b> 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision® L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
Diskette drive	<b>Preloaded applications<sup>5</sup></b> • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)		

See footnotes for important warranty information  
US models announced March 18, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	ENERGY STAR 4.0	Preload	Vista logo	Global Educ	Avail date	
ES	M57e	9487-B3U	2x3	Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	ES40	XP Pro	None	Sep 08	
ES	M57e	9487-B4U	2x3	Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	ES40	XP Pro	None	Sep 08	
ES	M57e	9487-B5U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	XP Pro	None	Sep 08	
ES	M57e	9487-B6U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD	GMA	ES40	XP Pro	None	Sep 08	
ES	M57e	9487-B1U	2x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	Bus32	Basic	None	Jul 08
ES	M57e	9487-B7U	2x3	Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	Bus32	Prem	None	Sep 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or <b>Intel Core™ 2 Duo Processor E7200 or E7300</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache	<b>Small</b> 
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> Supports ThinkVantage® technologies
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 80% PSU	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984	
- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985	
<b>Preloaded applications<sup>5</sup> (all OSes)</b>	1GB PC2-6400 NP DDR2 UDIMM 41U2977	
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM 41U2978	
• Client Security Solution™	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015	
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
• ThinkVantage System Update	USB Portable Diskette Drive 05K9276	
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset 40Y8518	
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Webcam 40Y8519	
• Diskeeper® Home	USB 2.0 Essential Memory Key 32GB 45K1258	
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 4GB 45J5917	
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 8GB 45J5918	
• Windows Live™ Toolbar	USB 2.0 Portable Secure 320GB Hard Disk 43R2019	
• Windows Live Search	ThinkVision® L1940p Wide 19" Monitor 4424HB6	
• Picasa from Google	ThinkVision L2240p Wide 22" Monitor 4422HB6	
• Microsoft Office 2007 Trial (60-day)	ThinkVision L2440p Wide 24" Monitor 4420HB2	
• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067	
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074	
• Corel® WinDVD® (DVD, DVD±RW)	Kensington Cable Lock from Lenovo 73P2582	
• Corel WinDVD Creator (DVD±RW) (XP)	ADD2 DVI-I PCIe Connection Adapter 73P2516	
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961	
	ATI Radeon HD 2400 XT 256MB 43R1962	
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074	
	Kensington Cable Lock from Lenovo 73P2582	
	ADD2 DVI-I PCIe Connection Adapter 73P2516	
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961	
	ATI Radeon HD 2400 XT 256MB 43R1962	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

See footnotes for important warranty information

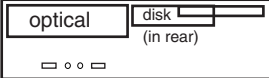
ES US models announced August 19, 2008; previous model on June 24, 2008

# ThinkCentre® M57e Small (6178) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	ENERGY STAR 4.0	Vista preload	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
<b>M57e</b>	6178-B1U	2x3	Core 2 Duo E8400	3.00	6MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	ES40	Business32	3-yr	G P	Jul 08

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

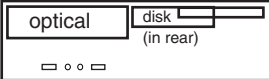
Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB L2 cache										Small					
Implementation	Processor in FC-LGA8 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)					
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available										Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3					
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>					
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7															
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)															
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors															
eSATA port	None															
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector															
Diskette drive	None															
Media reader	None															
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)															
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	One internal speaker for business audio															
Ethernet	Gigabit ethernet on planar, Marvel® 88E8056, PCIe x1, Wake on LAN®															
Intel AMT	None															
Modem	None															
Security chip	None															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo															
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo															
Power supply	280 watts with variable speed fan, autosenesing, 80% PSU															
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Basic logo										Supports ThinkVantage® technologies					
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>										EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant					
<b>Accessories</b>	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision® L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ 3-year parts and labor</li> <li>⇒ International Warranty Service<sup>9</sup></li> <li>⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>⇒ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>⇒ Post warranty maintenance services available</li> <li>⇒ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>					

See footnotes for important warranty information  
US model announced June 24, 2008

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(MONA2-3) June 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
M57e	7066-AAU	2x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB <sup>2</sup>	Combo	GMA	Business32	Basic	3-yr	G P	Apr 08

• This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® Dual-Core Processor E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 800MHz system bus with 1MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket										Small	
Implementation	Processor in FC-LGA6 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical	
Memory	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Bay ② 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Bay ③ 3.5", .5" high, access, open (reader/diskette)	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Slot 1: Low Profile, PCI Express x16 (35w max)	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7										Slot 2: Low Profile, 32-bit PCI 2.3	
SATA Combo	CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive										• Business black color; metal case	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors										• 12.5" W X 14.0" D X 3.9" H	
eSATA port	None										• 317mm W X 355mm D X 99mm H	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector										• 16.1 lb (7.3 kg) in maximum configuration	
Diskette drive	None										• Bays 1, 2, 3 flip up (latched and pivoting)	
Media reader	None										• Toolless cover flips up and tilts backward on rear hinges	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions										• Toolless disk, diskette drive, optical drive removal	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										• Toolless adapter retention	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)										• Toolless systemboard retention	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)										• Steel chassis supports 100 lb (45kg) monitor on top	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										• System floor stand for vertical orientation	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing											
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>											
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984											
<b>Preloaded applications<sup>5</sup></b>	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985											
• Rescue and Recovery™	1GB PC2-6400 NP DDR2 UDIMM 41U2977											
• Client Security Solution™	2GB PC2-6400 NP DDR2 UDIMM 41U2978											
• ThinkVantage Productivity Center	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015											
• ThinkVantage System Update	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990											
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset 40Y8518											
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Webcam 40Y8519											
• Diskeeper® Home	USB 2.0 Essential Memory Key 32GB 45K1258											
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916											
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 4GB 45J5917											
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 8GB 45J5918											
• Windows Live Search	USB 2.0 Portable 160GB Hard Disk 43R1784											
• Picasa from Google	USB 2.0 Portable Secure 320GB Hard Disk 43R2019											
• Microsoft Office 2007 Trial (60-day)	Super Multi-Burner DL DVD±RW SATA Drive 41N5620											
• Sonic RecordNow and Drive Letter Access (combo)	ThinkVision® L1700p 17" Monitor 9417HE2											
• Corel® WinDVD® (combo)	ThinkVision L1940p Wide 19" Monitor 4424HB6											
	ThinkVision L2240p Wide 22" Monitor 4422HB6											
	ThinkVision L2440p Wide 24" Monitor 4420HB2											
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067											
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074											
	Kensington Cable Lock from Lenovo 73P2582											
	ADD2 DVI-I PCIe Connection Adapter 73P2516											
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985											
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961											
	ATI Radeon HD 2400 XT 256MB 43R1962											
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>											
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>											
											Supports ThinkVantage® technologies	
											RoHS-compliant	
											<b>Limited Warranty<sup>1</sup></b>	
											↪ 3-year parts and labor	
											↪ International Warranty Service <sup>9</sup>	
											↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)	
											↪ Onsite service upgrade options (in eligible locations) <sup>7</sup>	
											• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)	
											• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)	
											• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)	
											↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>	
											↪ Post warranty maintenance services available	
											↪ 24 hour x 7 day <sup>14</sup> toll-free support during the warranty period <sup>1</sup> via 800-426-7378	

See footnotes for important warranty information  
US model announced March 18, 2008



# ThinkCentre® M57e Desktop (9481)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9481-A1U	4x3	Celeron 420	1.60	512KB	Single	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro	3-yr	None	Mar 08
M57e	9481-A6U	4x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr	None	Mar 08
M57e	9481-A2U	4x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr	None	Mar 08
M57e	9481-A7U	4x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	DVD±RW	GMA	XP Pro	3-yr	None	Mar 08
M57e	9481-BAU	4x3	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Combo	GMA	XP Pro	3-yr	None	Mar 08

Positioning Processor	<p><i>Mainstream enterprise stability and manageability</i></p> <p><b>Intel® Celeron® Processor 420</b> with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz system bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2160</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 4MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	<p><b>Desktop</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, access, open (reader/diskette)                  Bay ③ 3.5", 1" high, no access, std disk</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)                  Slot 2: Low Profile, PCI Express x1                  Slot 3: Low Profile, 32-bit PCI 2.3                  Slot 4: Low Profile, 32-bit PCI 2.3</p>
Implementation	<p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	
Memory	<p><b>1GB std</b>, 4GB max<sup>a</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; one socket available</p>	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>	
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>	
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH7</p>	
SATA DVD	<p><i>Some</i>: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> Drive (41N5618)</p>	
SATA Combo	<p><i>Some</i>: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive</p>	
SATA DVD±RW	<p><i>Some</i>: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>	
SATA cables	<p>Two SATA cables (each 1-drop to device), four SATA connectors on planar</p>	
eSATA port	<p>None</p>	
EIDE controller	<p>Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar</p>	
Diskette drive	<p>None</p>	
Media reader	<p>None</p>	
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>	
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>	
Rear ports	<p>Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</p>	
Internal connector	<p>Two USB 2.0 planar connectors (one used; one open for media reader)</p>	
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)</p>	
Audio	<p>High Definition (HD) Audio, Realtek<sup>®</sup> ALC662 codec</p>	
Speaker	<p>One internal speaker for business audio</p>	
Ethernet	<p>Gigabit ethernet on planar, Marvell<sup>®</sup> 88E8056, PCIe x1, Wake on LAN<sup>®</sup></p>	
Intel AMT	<p>None</p>	
Modem	<p>None</p>	
Security chip	<p>None</p>	
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>	
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>	
Power supply	<p>220 watts with variable speed fan, manual switch</p>	
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>	
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
◇ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
	1GB PC2-6400 NP DDR2 UDIMM	41U2977
	2GB PC2-6400 NP DDR2 UDIMM	41U2978
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
	USB 2.0 Lenovo Multimedia Headset	40Y8518
	USB 2.0 Lenovo Webcam	40Y8519
	USB 2.0 Essential Memory Key 32GB	45K1258
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
	ThinkVision® L2440p Wide 24" Monitor	4420HB2
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
	Kensington Cable Lock from Lenovo	73P2582
	ADD2 DVI-I PCIe Connection Adapter	73P2516
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961
	ATI Radeon HD 2400 XT 256MB	43R1962
	NVIDIA® Quadro® 256MB NVS 290	43R1765
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
<b>Preloaded applications<sup>5</sup> (only some listed)</b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Diskeeper® Home</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (combo, DVD, DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel® WinDVD® (combo, DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>	

See footnotes for important warranty information

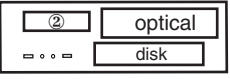
US model announced March 18, 2008; previous models on February 26, 2008

US model withdrawn effective September 2008

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(MONA1-5) March 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9481-J1U	4x3	Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	DVD	GMA	XP Pro	3-yr	None	Aug 08
M57e	9481-J2U	4x3	Pentium E2180	2.00	1MB	Dual	1GB	160GB	DVD±RW	GMA+ADD2	XP Pro	3-yr	None	Aug 08
M57e	9481-J3U	4x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB	DVD	GMA	XP Pro	3-yr	None	Aug 08
M57e	9481-J4U	4x3	Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	XP Pro	3-yr	None	Aug 08
M57e	9481-J6U	4x3	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD	GMA	XP Pro	3-yr	None	Aug 08
M57e	9481-J5U	4x3	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD±RW	GMA+ADD2	XP Pro	3-yr	None	Aug 08
M57e	9481-J7U	4x3	Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	DVD±RW	GMA	XP Pro	3-yr	None	Aug 08

Positioning	<i>Mainstream enterprise stability and manageability</i>								<b>Desktop</b>						
Processor	<b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or <b>Intel Core™ 2 Duo Processor E7200 or E7300</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket								 <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>						
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket								Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open (reader/diskette) Bay ③ 3.5", 1" high, no access, std disk  Slot 1: Low Profile, PCI Express x16 (35w max)* Slot 2: Low Profile, PCI Express x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3  * used in some models						
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available								<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>						
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-D Monitor Connection (HDCP)</b> , PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant								Supports ThinkVantage® technologies						
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts								RoHS-compliant						
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7								<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>						
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)														
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)														
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar														
eSATA port	None														
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar														
Diskette drive	None														
Media reader	None														
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models)														
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo														
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo														
Power supply	220 watts with variable speed fan, manual switch														
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>														
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM								73P4984						
◇ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM								73P4985						
	1GB PC2-6400 NP DDR2 UDIMM								41U2977						
	2GB PC2-6400 NP DDR2 UDIMM								41U2978						
	250GB SATA 3.0Gb/s Disk (7200 rpm)								41N3015						
	500GB SATA 3.0Gb/s Disk (7200 rpm)								43R1990						
	USB 2.0 Lenovo Multimedia Headset								40Y8518						
	USB 2.0 Lenovo Webcam								40Y8519						
	USB 2.0 Essential Memory Key 32GB								45K1258						
	USB 2.0 Ultra Secure Memory Key 8GB								45J5918						
	USB 2.0 Portable 160GB Hard Disk								43R1784						
	USB 2.0 Portable Secure 320GB Hard Disk								43R2019						
	ThinkVision® L2240p Wide 22" Monitor								4422HB6						
	ThinkVision L2440p Wide 24" Monitor								4420HB2						
	Wireless Kbd & Opt Wheel Mouse (via USB)								73P4067						
	Laser Tilt Wheel Mouse (USB, PS/2)								41U3074						
	Kensington Cable Lock from Lenovo								73P2582						
	ADD2 DVI-I PCIe Connection Adapter								73P2516						
	ADD2 DVI-D Monitor Connection (HDCP)								43R1985						
	ATI™ Radeon™ HD 2400 Pro 128MB								43R1961						
	ATI Radeon HD 2400 XT 256MB								43R1962						
	NVIDIA® Quadro® 256MB NVS 290								43R1765						
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>														
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>														

See footnotes for important warranty information  
 US models announced August 19, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9481-A5U	4x3	Celeron 420	1.60	512KB	Single	1GB	160GB <sup>2</sup>	DVD	GMA	Business32	3-yr		Mar 08
M57e	9481-A4U	4x3	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr		Mar 08
M57e	9481-D5U	4x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr	Gbl	Mar 08
M57e	9481-A3U	4x3	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr		Mar 08
M57e	9481-D6U	4x3	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr	Gbl	Mar 08
M57e	9481-A8U	4x3	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	DVD±RW	GMA	Business32	3-yr		Mar 08
M57e	9481-A9U	4x3	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr	Gbl	Mar 08

**Positioning Processor** *Mainstream enterprise stability and manageability*  
**Intel® Celeron® Processor 420** with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz system bus, and 512KB L2 cache or **Intel Pentium® Dual-Core Processor E2160 or E2200 with dual-core**, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or **Intel Core™ 2 Duo Processor E4500 or E4600 with dual-core**, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or **Intel Core 2 Duo Processor E6550 with dual-core**, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 4MB shared L2 cache or **Intel Core 2 Duo Processor E8200 with dual-core**, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket

**Implementation**

**Memory** **1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2**, non-parity, dual-channel capable, two 240-pin DIMM sockets; *Non-italics:* standard memory in one socket; one socket available

**Graphics** **Intel Graphics Media Accelerator 3100 (GMA 3100)**, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter

**SATA disk** **160GB**, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts  
**SATA controller** Serial ATA, SATA 3.0Gb/s, integrated in ICH7  
**SATA DVD** *Some:* DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> Drive (41N5618)  
**SATA Combo** *Some:* CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive  
**SATA DVD±RW** *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)  
**SATA cables** Two SATA cables (each 1-drop to device), four SATA connectors on planar  
**eSATA port** None  
**EIDE controller** Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar  
**Diskette drive** None  
**Media reader** None

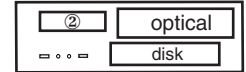
**Chipset** **Intel G31 Express Chipset**; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions

**Front ports** Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  
**Rear ports** Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)  
**Internal connector** Two USB 2.0 planar connectors (one used; one open for media reader)  
**Rear audio ports** Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)  
**Audio** High Definition (HD) Audio, Realtek<sup>®</sup> ALC662 codec  
**Speaker** One internal speaker for business audio  
**Ethernet** Gigabit ethernet on planar, Marvell<sup>®</sup> 88E8056, PCIe x1, Wake on LAN<sup>®</sup>  
**Intel AMT** None  
**Modem** None  
**Security chip** None

**Keyboard** Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo  
**Mouse** Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  
**Power supply** 220 watts with variable speed fan, manual switch

Preloaded operating system <sup>20</sup>	Accessories	
- Microsoft® Windows® Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
↕ Vista Basic logo	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
<b>Preloaded applications<sup>5</sup> (only some listed)</b>	1GB PC2-6400 NP DDR2 UDIMM	41U2977
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM	41U2978
• Client Security Solution™	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset	40Y8518
• ThinkVantage System Update	USB 2.0 Essential Memory Key 32GB	45K1258
• Norton Internet Security™	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
• Diskeeper® Home	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
• PC-Doctor™ (diagnostics)	ThinkVision® L2440p Wide 24" Monitor	4420HB2
• Picasa from Google	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
• Microsoft Office 2007 Trial (60-day)	Kensington Cable Lock from Lenovo	73P2582
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)	ADD2 DVI-I PCIe Connection Adapter	73P2516
• Corel® WinDVD® (combo, DVD, DVD±RW)	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961
	ATI Radeon HD 2400 XT 256MB	43R1962
	NVIDIA® Quadro® 256MB NVS 290	43R1765
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

**Desktop**



- Business black color
  - 13.0" W X 16.2" D X 4.1" H
  - 331mm W X 412mm D X 104mm H
  - 19.4 lb (8.8 kg) in max configuration
  - Toolless cover removal
  - Toolless disk, diskette drive, optical drive removal
  - Toolless adapter retention
- Bay ① 5.25", 1.6" high, access, std optical  
 Bay ② 3.5", 1" high, access, open (reader/diskette)  
 Bay ③ 3.5", 1" high, no access, std disk
- Slot 1: Low Profile, PCI Express x16 (35w max)  
 Slot 2: Low Profile, PCI Express x1  
 Slot 3: Low Profile, 32-bit PCI 2.3  
 Slot 4: Low Profile, 32-bit PCI 2.3

**Security**

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® Microsaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- Parallel port I/O control
- USB port disablement

Supports ThinkVantage® technologies

RoHS-compliant

**Limited Warranty<sup>1</sup>**

- ↔ **3-year parts and labor**
- ↔ **International Warranty Service<sup>9</sup>**
- ↔ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- ↔ **Onsite service upgrade options (in eligible locations):<sup>7</sup>**
  - **3-year LOR 9x5, 4 hour response** (ThinkPlus™ part number 41C9192)
  - **3-year LOR 24x7, 4 hour response** (ThinkPlus part number 41C9193)
  - **4-year LOR 9x5, Next Business Day** (ThinkPlus part number 41C9194)
  - **4-year LOR 9x5, 4 hour response** (ThinkPlus part number 41C9195)
  - **4-year LOR 24x7, 4 hour response** (ThinkPlus part number 41C9196)
- ↔ **ThinkPlus services at [lenovo.com/thinkplus/warranty](http://lenovo.com/thinkplus/warranty)**
- ↔ **Post warranty maintenance services available**
- ↔ **24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378**

See footnotes for important warranty information

☞ US models announced March 18, 2008; previous models on February 19, 2008

⊗ US model withdrawn effective September 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9481-F2U	4x3	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	Business32	3-yr	None	Jun 08

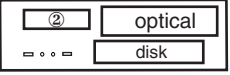
• This model has a 3-year limited warranty<sup>1</sup>

Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Core™ 2 Duo Processor E7200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache		<b>Desktop</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		<ul style="list-style-type: none"> <li>Business black color</li> <li>13.0" W X 16.2" D X 4.1" H</li> <li>331mm W X 412mm D X 104mm H</li> <li>19.4 lb (8.8 kg) in max configuration</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Memory	<b>1GB std</b> , 4GB max <sup>9</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		<ul style="list-style-type: none"> <li>Bay ① 5.25", 1.6" high, access, std optical</li> <li>Bay ② 3.5", 1" high, access, open (reader/diskette)</li> <li>Bay ③ 3.5", 1" high, no access, std disk</li> </ul>	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		<ul style="list-style-type: none"> <li>Slot 1: Low Profile, PCI Express x16 (35w max)</li> <li>Slot 2: Low Profile, PCI Express x1</li> <li>Slot 3: Low Profile, 32-bit PCI 2.3</li> <li>Slot 4: Low Profile, 32-bit PCI 2.3</li> </ul>	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>USB port disablement</li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors			
eSATA port	None			
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	220 watts with variable speed fan, manual switch			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b> <ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Security Memory Key 2GB 41U5119</li> <li>USB 2.0 Security Memory Key 4GB 41U5120</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision<sup>®</sup> L1700p 17" Monitor 9417HE2</li> <li>ThinkVision L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>			
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit)			Supports ThinkVantage <sup>®</sup> technologies	
◇ Vista Basic logo			RoHS-compliant	
<b>Preloaded applications<sup>5</sup></b>			<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ 3-year parts and labor</li> <li>⇒ International Warranty Service<sup>9</sup></li> <li>⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>⇒ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>⇒ Post warranty maintenance services available</li> <li>⇒ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	
• Rescue and Recovery <sup>™</sup>				
• Client Security Solution <sup>™</sup>				
• ThinkVantage Productivity Center				
• ThinkVantage System Update				
• System Migration Assistant				
• Norton Internet Security <sup>™</sup> (90 days of virus definitions)				
• Diskeeper <sup>®</sup> Home				
• PC-Doctor <sup>™</sup> (diagnostics)				
• Adobe <sup>®</sup> Reader				
• Windows Live <sup>™</sup> Toolbar				
• Windows Live Search				
• Picasa from Google				
• Microsoft Office 2007 Trial (60-day)				
• Sonic RecordNow and Drive Letter Access (DVD±RW)				
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD±RW)				

See footnotes for important warranty information  
US model announced June 24, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
M57e	9481-JCU	4x3	Pentium E5200	2.50	2MB	2	1GB	160GB <sup>2</sup>	DVD	GMA	Business32	Premium	None	Nov 08
M57e	9481-JDU	4x3	Pentium E5200	2.50	2MB	2	1GB	250GB	DVD±RW	GMA	Business32	Premium	None	Nov 08

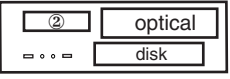
• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Pentium® Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache		<b>Desktop</b> 
Implementation	Processor in FC-LGA6 package in LGA775 socket		
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		<ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                      Bay ② 3.5", 1" high, access, open (reader/diskette)                      Bay ③ 3.5", 1" high, no access, std disk</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)                      Slot 2: Low Profile, PCI Express x1                      Slot 3: Low Profile, 32-bit PCI 2.3                      Slot 4: Low Profile, 32-bit PCI 2.3</p>
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		Supports ThinkVantage <sup>®</sup> technologies RoHS-compliant <b>Limited Warranty<sup>1</sup></b> ⇨ <b>3-year parts and labor</b> ⇨ <b>International Warranty Service<sup>9</sup></b> ⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b> ⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> • <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus <sup>™</sup> part number 41C9192) • <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193) • <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194) • <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195) • <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196) ⇨ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b> ⇨ <b>Post warranty maintenance services available</b> ⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b>
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision <sup>®</sup> L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290 43R1765 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
<b>Preloaded applications<sup>5</sup></b>			
• Rescue and Recovery <sup>™</sup>			
• Client Security Solution <sup>™</sup>			
• ThinkVantage Productivity Center			
• ThinkVantage System Update			
• System Migration Assistant			
• Norton Internet Security <sup>™</sup> (90 days of virus definitions)			
• Diskeeper <sup>®</sup> Home			
• PC-Doctor <sup>™</sup> (diagnostics)			
• Adobe <sup>®</sup> Reader			
• Windows Live <sup>™</sup> Toolbar			
• Windows Live Search			
• Picasa from Google			
• Microsoft Office 2007 Trial (60-day)			
• Sonic RecordNow and Drive Letter Access (DVD±RW)			
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD, DVD±RW)			

See footnotes for important warranty information  
 US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	ENERGY STAR 4.0	Preload	Vista logo	Global Educ	Avail date
☞	<b>M57e</b>	9438-AJU	4x3 Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	ES40	XP Pro	No	Sep 08	
☞	<b>M57e</b>	9438-AKU	4x3 Pentium E2200	2.20	1MB	Dual	2GB	160GB	DVD±RW	GMA	ES40	XP Pro	No	Sep 08	
☞	<b>M57e</b>	9438-ALU	4x3 Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	XP Pro	No	Sep 08	
☞	<b>M57e</b>	9438-AMU	4x3 Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	DVD	GMA+ADD2	ES40	XP Pro	No	Sep 08	
☞	<b>M57e</b>	9438-B1U	4x3 Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	Bus32	Basic	No	Jun 08
☞	<b>M57e</b>	9438-ANU	4x3 Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	DVD±RW	GMA	ES40	Bus32	Prem	No	Sep 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p>Mainstream enterprise stability and manageability  <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or  <b>Intel Core™ 2 Duo Processor E7200 or E7300</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache                      Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Desktop</b></p>  <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                      Bay ② 3.5", 1" high, access, open (reader/diskette)                      Bay ③ 3.5", 1" high, no access, std disk</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)<sup>*</sup>                      Slot 2: Low Profile, PCI Express x1                      Slot 3: Low Profile, 32-bit PCI 2.3                      Slot 4: Low Profile, 32-bit PCI 2.3</p> <p><sup>*</sup> used in some models</p>
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		
Memory	<p><b>1GB or 2GB std</b>, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets;                      Non-italics: standard memory in one socket; one socket available</p>		
Graphics	<p>All: <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector                      Some: <b>ADD2 DVI-D Monitor Connection (HDCP)</b>, PCI Express<sup>®</sup> adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant</p>		
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar		
Diskette drive	None		
Media reader	None		
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus /                      ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, autosensing, 80% PSU		
<b>Preloaded operating system<sup>20</sup></b>	<p>- Some: Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional with Vista<sup>®</sup> COA                      - Some: Microsoft Windows Vista Business Edition (32-bit)</p>		
<b>Preloaded applications<sup>5</sup> (all OSes)</b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery<sup>™</sup></li> <li>• Client Security Solution<sup>™</sup></li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security<sup>™</sup></li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• PC-Doctor<sup>™</sup> (diagnostics)</li> <li>• Adobe<sup>®</sup> Reader</li> <li>• Windows Live<sup>™</sup> Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW) (XP)</li> </ul>		
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision<sup>®</sup> L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		
	<p>☞ <b>3-year parts and labor</b></p> <p>☞ <b>International Warranty Service<sup>9</sup></b></p> <p>☞ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></p> <p>☞ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b></p> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> <p>☞ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></p> <p>☞ <b>Post warranty maintenance services available</b></p> <p>☞ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></p>		
	<p>Supports ThinkVantage<sup>®</sup> technologies</p> <p>EPEAT<sup>™</sup> Gold rating                      ENERGY STAR 4.0-compliant                      RoHS-compliant</p>		

See footnotes for important warranty information

☞ US models announced August 19, 2008; previous model on June 24, 2008



# ThinkCentre® M57e Desktop (6177) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	ENERGY STAR 4.0	Vista preload	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
<b>M57e</b>	6177-B1U	4x3	Core 2 Duo E8400	3.00	6MB	Dual	1GB	160GB <sup>2</sup>	DVD±RW	GMA	ES40	Business32	3-yr	G P	Jul 08

• **This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB L2 cache Processor in FC-LGA8 package in LGA775 socket										<b>Desktop</b>				
Implementation											<ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>				
Memory	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available										<ul style="list-style-type: none"> <li>Bay ① 5.25", 1.6" high, access, std optical</li> <li>Bay ② 3.5", 1" high, access, open (reader/diskette)</li> <li>Bay ③ 3.5", 1" high, no access, std disk</li> </ul>				
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										<ul style="list-style-type: none"> <li>Slot 1: Low Profile, PCI Express x16 (35w max)</li> <li>Slot 2: Low Profile, PCI Express x1</li> <li>Slot 3: Low Profile, 32-bit PCI 2.3</li> <li>Slot 4: Low Profile, 32-bit PCI 2.3</li> </ul>				
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<p style="text-align: center;"><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)														
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors														
eSATA port	None														
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar														
Diskette drive	None														
Media reader	None														
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)														
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo														
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo														
Power supply	220 watts with variable speed fan, autosensing, 80% PSU														
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>										Supports ThinkVantage® technologies				
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM										73P4984				
↕ Vista Basic logo	2GB PC2-5300 CL5 NP DDR2 UDIMM										73P4985				
<b>Preloaded applications<sup>5</sup></b>	1GB PC2-6400 NP DDR2 UDIMM										41U2977				
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM										41U2978				
• Client Security Solution™	250GB SATA 3.0Gb/s Disk (7200 rpm)										41N3015				
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm)										43R1990				
• ThinkVantage System Update	USB Portable Diskette Drive										05K9276				
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset										40Y8518				
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Webcam										40Y8519				
• Diskeeper® Home	USB 2.0 Essential Memory Key 32GB										45K1258				
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB										45J5916				
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 4GB										45J5917				
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 8GB										45J5918				
• Windows Live Search	USB 2.0 Portable 160GB Hard Disk										43R1784				
• Picasa from Google	USB 2.0 Portable Secure 320GB Hard Disk										43R2019				
• Microsoft Office 2007 Trial (60-day)	ThinkVision® L1700p 17" Monitor										9417HE2				
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ThinkVision L1940p Wide 19" Monitor										4424HB6				
• Corel® WinDVD® (DVD±RW)	ThinkVision L2240p Wide 22" Monitor										4422HB6				
	ThinkVision L2440p Wide 24" Monitor										4420HB2				
	Wireless Kbd & Opt Wheel Mouse (via USB)										73P4067				
	Laser Tilt Wheel Mouse (USB, PS/2)										41U3074				
	Kensington Cable Lock from Lenovo										73P2582				
	ADD2 DVI-I PCIe Connection Adapter										73P2516				
	ADD2 DVI-D Monitor Connection (HDCP)										43R1985				
	ATI™ Radeon™ HD 2400 Pro 128MB										43R1961				
	ATI Radeon HD 2400 XT 256MB										43R1962				
	NVIDIA® Quadro® 256MB NVS 290										43R1765				
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>														
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>														
<p style="text-align: center;"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>															

See footnotes for important warranty information  
US model announced June 24, 2008

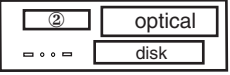
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(MONA2-7) June 2008

# ThinkCentre® M57e Desktop (7065) - GMP

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
<b>M57e</b>	7065-AAU	4x3	Pentium E2200	2.20	1MB	Dual	1GB	160GB <sup>2</sup>	Combo	GMA	Business32	3-yr	G P	Apr 08
<b>M57e</b>	7065-ABU	4x3	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr	G P	Apr 08
<b>M57e</b>	7065-ACU	4x3	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Combo	GMA	Business32	3-yr	G P	Apr 08

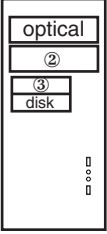
- **These models are part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® Dual-Core Processor E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Desktop</b>	
Implementation		<ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4 lb (8.8 kg) in max configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Memory	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open (reader/diskette) Bay ③ 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, PCI Express x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA Combo	CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>			Supports ThinkVantage® technologies
<ul style="list-style-type: none"> <li>- Microsoft® Windows® Vista® Business Edition (32-bit)</li> <li>◇ Vista Basic logo</li> </ul>			RoHS-compliant
<b>Preloaded applications<sup>5</sup></b>			<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
<b>Accessories</b>			
	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
	USB 2.0 Lenovo Multimedia Headset	40Y8518	
	USB 2.0 Lenovo Webcam	40Y8519	
	USB 2.0 Essential Memory Key 32GB	45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	
	ThinkVision® L2240p Wide 22" Monitor	4422HB6	
	ThinkVision L2440p Wide 24" Monitor	4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	ADD2 DVI-I PCIe Connection Adapter	73P2516	
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	
	ATI Radeon HD 2400 XT 256MB	43R1962	
	NVIDIA® Quadro® 256MB NVS 290	43R1765	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information  
US models announced March 18, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Vista logo	Global Educ	Avail date
M57e	6179-B2U	4x4	Pentium E2200	2.20	1MB	Dual	1GB	160GB <sup>2</sup>	None	DVD	GMA	XP Pro	None	None	Jun 08
M57e	6179-B1U	4x4	Pentium E2200	2.20	1MB	Dual	2GB	160GB	None	DVD±RW	GMA	XP Pro	None	None	Jun 08
M57e	6179-B3U	4x4	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB	None	DVD	GMA	XP Pro	None	None	Jun 08
M57e	6179-B4U	4x4	Core 2 Duo E7200	2.53	3MB	Dual	2GB	160GB	None	DVD±RW	GMA	XP Pro	None	None	Jun 08
ES	M57e	6179-B5U	Pentium E2200	2.20	1MB	Dual	1GB	160GB	None	DVD	GMA	Business32	Prem	None	Aug 08
ES	M57e	6179-B6U	Pentium E2200	2.20	1MB	Dual	2GB	160GB	None	DVD±RW	GMA	Business32	Prem	None	Aug 08

**• These small and medium business (SMB) models are part of the US TopSeller™ Program**  
**• These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	Stability and manageability for small and medium businesses <b>Intel® Pentium® Dual-Core Processor E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or <b>Intel Core™ 2 Duo Processor E7200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache	<b>Tower</b> <ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.3" D X 15.8" H</li> <li>175mm W X 440mm D X 402mm H</li> <li>24.2 lb (11.0 kg) in max configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	
- <i>Some:</i> Microsoft Windows <sup>®</sup> XP Professional with Vista <sup>®</sup> COA	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984	
- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985	
	1GB PC2-6400 NP DDR2 UDIMM 41U2977	
	2GB PC2-6400 NP DDR2 UDIMM 41U2978	
	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015	
	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
	USB 2.0 Lenovo Multimedia Headset 40Y8518	
	USB 2.0 Lenovo Webcam 40Y8519	
	USB 2.0 Essential Memory Key 32GB 45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB 45J5918	
	USB 2.0 Portable Secure 320GB Hard Disk 43R2019	
	ThinkVision <sup>®</sup> L2440p Wide 24" Monitor 4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074	
	Kensington Cable Lock from Lenovo 73P2582	
	ADD2 DVI-I PCIe Connection Adapter 73P2516	
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 XP 128MB 43R1961	
	ATI Radeon HD 2400 XT 256MB 43R1962	
	ATI Radeon HD 2600 XT 512MB 43R1963	
	NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290 43R1765	
	NVIDIA Quadro 256MB FX 370 43R1766	
	NVIDIA Quadro 512MB FX 1700 43R1767	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
<b>Preloaded applications<sup>5</sup> (all OSes)</b>		
• Rescue and Recovery <sup>™</sup>		
• Client Security Solution <sup>™</sup>		
• ThinkVantage Productivity Center		
• ThinkVantage System Update		
• System Migration Assistant		
• Norton Internet Security <sup>™</sup>		
• Diskeeper <sup>®</sup> Home		
• PC-Doctor <sup>™</sup> (diagnostics)		
• Adobe <sup>®</sup> Reader		
• Windows Live <sup>™</sup> Toolbar		
• Windows Live Search		
• Picasa from Google		
• Microsoft Office 2007 Trial (60-day)		
• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)		
• Sonic RecordNow and Drive Letter Access (DVD±RW)		
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD, DVD±RW)		
• Corel WinDVD Creator (DVD±RW) (XP)		
		<b>Security</b>
		<ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>USB port disablement</li> </ul>
		Supports ThinkVantage <sup>®</sup> technologies
		RoHS-compliant
		<b>Limited Warranty<sup>1</sup></b>
		<ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>

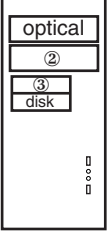
See footnotes for important warranty information

ES US models announced August 19, 2008; previous models on June 24, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Vista logo	Global Educ	Avail date
<b>M57e</b>	6179-BBU	4x4	Pentium E5200	2.50	2MB	2	1GB	160GB <sup>2</sup>	None	DVD	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6179-BCU	4x4	Pentium E5200	2.50	2MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6179-BFU	4x4	Core 2 Duo E7300	2.66	3MB	2	1GB	160GB	None	DVD	GMA	XP Pro	Premium	None	Nov 08
<b>M57e</b>	6179-BDU	4x4	Core 2 Duo E7300	2.66	3MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Premium	None	Nov 08

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Stability and manageability for small and medium businesses</i> <b>Intel® Pentium® Dual-Core Processor E5200 with dual-core,</b> 800MHz system bus, and 2MB L2 cache or <b>Intel Core™ 2 Duo Processor E7300 with dual-core,</b> 1066MHz system bus, and 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<ul style="list-style-type: none"> <li>Bay ① 5.25", 1.6" high, access, std optical</li> <li>Bay ② 5.25", 1.6" high, access, open</li> <li>Bay ③ 3.5", 1" high, access, open (reader/diskette)</li> <li>Bay ④ 3.5", 1" high, no access, std disk</li> </ul>
Memory	<b>1GB or 2GB std,</b> 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2,</b> non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100),</b> integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	<ul style="list-style-type: none"> <li>Slot 1: half-length, full-height, PCI Express x16 (75w max)</li> <li>Slot 2: half-length, full-height, PCI Express x1</li> <li>Slot 3: half-length, full-height, 32-bit PCI 2.3</li> <li>Slot 4: half-length, full-height, 32-bit PCI 2.3</li> </ul>
SATA disk	<b>160GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset;</b> I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvel <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	Supports ThinkVantage <sup>®</sup> technologies
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	RoHS-compliant
Power supply	280 watts with variable speed fan, manual switch	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
- Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional with Vista <sup>®</sup> COA	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984	
↕ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985	
<b>Preloaded applications<sup>5</sup></b>	1GB PC2-6400 NP DDR2 UDIMM 41U2977	
• Rescue and Recovery™	2GB PC2-6400 NP DDR2 UDIMM 41U2978	
• Client Security Solution™	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015	
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
• ThinkVantage System Update	USB 2.0 Lenovo Multimedia Headset 40Y8518	
• System Migration Assistant	USB 2.0 Lenovo Webcam 40Y8519	
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Essential Memory Key 32GB 45K1258	
• Diskeeper <sup>®</sup> Home	USB 2.0 Ultra Secure Memory Key 8GB 45J5918	
• PC-Doctor™ (diagnostics)	USB 2.0 Portable Secure 320GB Hard Disk 43R2019	
• Adobe <sup>®</sup> Reader	ThinkVision™ L2240p Wide 22" Monitor 4422HB6	
• Windows Live™ Toolbar	ThinkVision L2440p Wide 24" Monitor 4420HB2	
• Windows Live Search	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067	
• Picasa from Google	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074	
• Microsoft Office 2007 Trial (60-day)	Kensington Cable Lock from Lenovo 73P2582	
• Multimedia Center for Think Offerings (DVD, DVD±RW)	ADD2 DVI-I PCIe Connection Adapter 73P2516	
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD, DVD±RW)	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961	
• Corel WinDVD Creator (DVD±RW)	ATI Radeon HD 2400 XT 256MB 43R1962	
	ATI Radeon HD 2600 XT 512MB 43R1963	
	NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290 43R1765	
	NVIDIA Quadro 256MB FX 370 43R1766	
	NVIDIA Quadro 512MB FX 1700 43R1767	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

See footnotes for important warranty information  
US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9439-B8U	4x5	Pentium E2160	1.80	1MB	Dual	1GB	160GB <sup>2</sup>	Bay	Combo	GMA	XP Pro	3-yr	None	Mar 08
M57e	9439-B9U	4x5	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Bay	Combo	GMA	XP Pro	3-yr	None	Mar 08
M57e	9439-BAU	4x5	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	Bay	Combo	GMA	XP Pro	3-yr	None	Mar 08
M57e	9439-A2U	4x5	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Bay	Combo	GMA	XP Pro	3-yr	None	Mar 08

Positioning Processor	<p><i>Mainstream enterprise stability and manageability</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus, and 4MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation			<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Bay ⑤ 3.5", 1" high, no access, opt disk</p>	
Memory	<p><b>1GB std, 4GB max<sup>6</sup>, PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; one socket available</p>		<p>Slot 1: half-length, full-height, PCI Express x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCI Express x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>			
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>			
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH7</p>			
SATA Combo	<p>CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive</p>			
SATA cables	<p>Two SATA cables (each 1-drop to device), four SATA connectors on planar</p>			
eSATA port	<p>None</p>			
EIDE controller	<p>Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar</p>			
Diskette drive	<p>None</p>			
Media reader	<p>None</p>			
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>			
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>			
Rear ports	<p>Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</p>			
Internal connector	<p>Two USB 2.0 planar connectors (one used; one open for media reader)</p>			
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)</p>			
Audio	<p>High Definition (HD) Audio, Realtek<sup>®</sup> ALC662 codec</p>			
Speaker	<p>One internal speaker for business audio</p>			
Ethernet	<p>Gigabit ethernet on planar, Marvell<sup>®</sup> 88E8056, PCIe x1, Wake on LAN<sup>®</sup></p>			
Intel AMT	<p>None</p>			
Modem	<p>None</p>			
Security chip	<p>None</p>			
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>			
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>			
Power supply	<p>280 watts with variable speed fan, manual switch</p>			
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional with Vista<sup>®</sup> COA</p> <p>↕ Disk-to-Disk Recovery (in hidden protected area)</p>			
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe<sup>®</sup> Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (combo)</li> <li>• Sonic RecordNow and Drive Letter Access (combo)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (combo)</li> </ul>			
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>Super Multi-Burner DL DVD±RW SATA Drive 41N5620</li> <li>ThinkVision<sup>®</sup> L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>			
			<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>	
			<p>Supports ThinkVantage<sup>®</sup> technologies</p>	
			<p>RoHS-compliant</p>	
			<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↕ <b>3-year parts and labor</b></li> <li>↕ <b>International Warranty Service<sup>9</sup></b></li> <li>↕ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↕ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↕ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↕ <b>Post warranty maintenance services available</b></li> <li>↕ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information

US model announced March 18, 2008; previous models on February 26, 2008

US model withdrawn effective September 2008



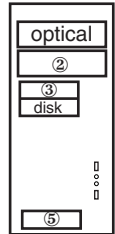




Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57e	9439-B1U	4x5	Celeron 420	1.60	512KB	Single	1GB	160GB <sup>2</sup>	Bay	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-AAU	4x4	Celeron 430	1.80	512KB	Single	1GB	80GB		DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ABU	4x4	Pentium E2160	1.80	1MB	Dual	1GB	80GB		DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-AQU	4x5	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Bay	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-APU	4x5	Pentium E2160	1.80	1MB	Dual	1GB	160GB	Bay	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ACU	4x4	Core 2 Duo E4500	2.20	2MB	Dual	1GB	80GB		DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ARU	4x5	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Bay	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ASU	4x5	Core 2 Duo E4500	2.20	2MB	Dual	1GB	160GB	Bay	Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-AUU	4x5	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	Bay	DVD	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ADU	4x4	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB		Combo	GMA	Bus32	3-yr	None	Mar 08
M57e	9439-ATU	4x5	Core 2 Duo E6550	2.33	4MB	Dual	1GB	160GB	Bay	Combo	GMA	Bus32	3-yr	None	Mar 08

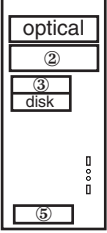
Positioning	<i>Mainstream enterprise stability and manageability</i>	
Processor	<b>Intel® Celeron® Processor 420 or 430</b> with single-core, Intel 64 Technology, EDBit, 800MHz bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket	
Implementation	Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention	
Memory	1GB std, 4GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	
SATA disk	80GB or 160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA Combo	<i>Some</i> : CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive	
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Preloaded operating system <sup>20</sup>	- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit) ⇨ Vista Basic logo	
Preloaded applications <sup>5</sup> (only some listed)	• Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ • Diskeeper <sup>®</sup> Home • PC-Doctor™ (diagnostics) • Picasa from Google • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo) • Corel <sup>®</sup> WinDVD <sup>®</sup> (combo, DVD)	
Accessories	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 ThinkVision <sup>®</sup> L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI <sup>™</sup> Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 2600 XT 512MB 43R1963 NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 43R1766 NVIDIA Quadro 512MB FX 1700 43R1767 Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
Security	• One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington <sup>®</sup> Microsaver <sup>®</sup> cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement	
Supports ThinkVantage <sup>®</sup> technologies		
RoHS-compliant		
Limited Warranty <sup>1</sup>	⇨ 3-year parts and labor ⇨ International Warranty Service <sup>9</sup> ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Onsite service upgrade options (in eligible locations) <sup>7</sup> : • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇨ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a> ⇨ 24 hour x 7 day <sup>14</sup> toll-free support during the warranty period <sup>1</sup> via 800-426-7378	



See footnotes for important warranty information  
 US models announced February 19, 2008  
 < US models withdrawn effective September 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
M57e	9439-AWU	4x5	Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	Bay	DVD±RW	GMA	Bus32	Basic		Aug 08
M57e	9439-DGU	4x4	Pentium E2200	2.20	1MB	Dual	1GB	160GB		Combo	GMA	Bus32	Basic	Gbl	Mar 08
M57e	9439-DHU	4x4	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB		Combo	GMA+ADD2	Bus32	Basic	Gbl	Mar 08
M57e	9439-A3U	4x5	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	Bay	Combo	GMA	Bus32	Basic		Mar 08
M57e	9439-DJU	4x4	Core 2 Duo E8400	3.00	6MB	Dual	2GB	250GB		DVD±RW	GMA+ADD2	Bus32	Premium	Gbl	Mar 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 or E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation			
Memory	<b>1GB or 2GB</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk**
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-I PCIe Connection Adapter</b> , PCI Express <sup>®</sup> adapter in PCIe x16 slot, provides DVI-I connector to support second monitor, no DVI-to-VGA dongle		** 2nd Disk Bay is only available on some models Slot 1: half-length, full-height, PCI Express x16 (75w max) <sup>*</sup> Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-I in some models)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
	USB 2.0 Lenovo Multimedia Headset	40Y8518	
	USB 2.0 Essential Memory Key 32GB	45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
	ThinkVision <sup>®</sup> L2440p Wide 24" Monitor	4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Kensington Cable Lock from Lenovo	73P2582	
	ADD2 DVI-I PCIe Connection Adapter	73P2516	
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	
	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB	43R1961	
	ATI Radeon HD 2400 XT 256MB	43R1962	
	ATI Radeon HD 2600 XT 512MB	43R1963	
	NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290	43R1765	
	NVIDIA Quadro 256MB FX 370	43R1766	
	NVIDIA Quadro 512MB FX 1700	43R1767	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
<b>Preloaded applications<sup>5</sup></b>			
• Rescue and Recovery <sup>™</sup>			
• Client Security Solution <sup>™</sup>			
• ThinkVantage Productivity Center			
• ThinkVantage System Update			
• System Migration Assistant			
• Norton Internet Security <sup>™</sup> (90 days of virus definitions)			
• Diskeeper <sup>®</sup> Home			
• PC-Doctor <sup>™</sup> (diagnostics)			
• Adobe <sup>®</sup> Reader			
• Windows Live <sup>™</sup> Toolbar			
• Windows Live Search			
• Picasa from Google			
• Microsoft Office 2007 Trial (60-day)			
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)			
• Corel <sup>®</sup> WinDVD <sup>®</sup> (combo, DVD±RW)			
			<b>Security</b>
			<ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>
			Supports ThinkVantage <sup>®</sup> technologies
			RoHS-compliant
			<b>Limited Warranty<sup>1</sup></b>
			<ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>

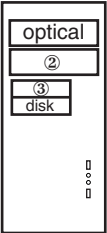
See footnotes for important warranty information

US model announced August 19, 2008; previous models on March 18, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
<b>M57e</b>	9439-D6U	4x4	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB <sup>2</sup>	None	DVD±RW	GMA	Bus32	3-yr	None	Jun 08

• *This model has a 3-year limited warranty<sup>1</sup>*

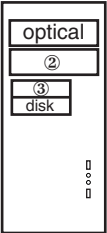
Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E7200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache										<b>Tower</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7											
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)											
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors											
eSATA port	None											
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector											
Diskette drive	None											
Media reader	None											
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)											
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft® Windows® Vista Business Edition (32-bit) ◇ Vista Basic logo										Supports ThinkVantage® technologies	
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>										RoHS-compliant	
<b>Accessories</b>	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision® L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 2600 XT 512MB 43R1963 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 43R1766 NVIDIA Quadro 512MB FX 1700 43R1767 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information  
US model announced June 24, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
<b>M57e</b>	9439-F1U	4x4	Pentium E5200	2.50	2MB	2	1GB	160GB <sup>2</sup>	None	DVD	GMA	Bus32	Prem	None	Nov 08
<b>M57e</b>	9439-F2U	4x4	Pentium E5200	2.50	2MB	2	1GB	250GB	None	DVD±RW	GMA	Bus32	Prem	None	Nov 08

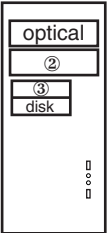
• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® Dual-Core Processor E5200</b> with <b>dual-core</b> , 800MHz system bus, and 2MB L2 cache		<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA6 package in LGA775 socket		
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
<b>Preloaded applications<sup>5</sup></b>	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
• Rescue and Recovery <sup>™</sup>	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
• Client Security Solution <sup>™</sup>	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
• ThinkVantage Productivity Center	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• ThinkVantage System Update	USB Portable Diskette Drive	05K9276	
• System Migration Assistant	USB 2.0 Lenovo Multimedia Headset	40Y8518	
• Norton Internet Security <sup>™</sup> (90 days of virus definitions)	USB 2.0 Lenovo Webcam	40Y8519	
• Diskeeper <sup>®</sup> Home	USB 2.0 Essential Memory Key 32GB	45K1258	
• PC-Doctor <sup>™</sup> (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	
• Adobe <sup>®</sup> Reader	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	
• Windows Live <sup>™</sup> Toolbar	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
• Windows Live Search	USB 2.0 Portable 160GB Hard Disk	43R1784	
• Picasa from Google	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
• Microsoft Office 2007 Trial (60-day)	ThinkVision <sup>®</sup> L1940p Wide 19" Monitor	4424HB6	
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ThinkVision L2240p Wide 22" Monitor	4422HB6	
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD, DVD±RW)	ThinkVision L2440p Wide 24" Monitor	4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	ADD2 DVI-I PCIe Connection Adapter	73P2516	
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	
	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB	43R1961	
	ATI Radeon HD 2400 XT 256MB	43R1962	
	ATI Radeon HD 2600 XT 512MB	43R1963	
	NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290	43R1765	
	NVIDIA Quadro 256MB FX 370	43R1766	
	NVIDIA Quadro 512MB FX 1700	43R1767	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
		Supports ThinkVantage <sup>®</sup> technologies	
		RoHS-compliant	
		<b>Limited Warranty<sup>1</sup></b>	
		↪ <b>3-year parts and labor</b>	
		↪ <b>International Warranty Service<sup>9</sup></b>	
		↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b>	
		↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b>	
		• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus <sup>™</sup> part number 41C9192)	
		• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)	
		• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)	
		• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)	
		• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)	
		↪ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b>	
		↪ <b>Post warranty maintenance services available</b>	
		↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b>	

See footnotes for important warranty information  
US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	ENERGY STAR 4.0	Vista preload	Vista logo	Global Educ	Avail date
<b>M57e</b>	9356-ADU	4x4	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB <sup>2</sup>	None	Combo	GMA	ES40	Bus32	Basic	Gbl	Mar 08
<b>M57e</b>	9356-AFU	4x4	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	None	Combo	GMA+ADD2	ES40	Bus32	Basic	Gbl	Mar 08
<b>M57e</b>	9356-AEU	4x4	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	None	Combo	GMA	ES40	Bus32	Basic	Gbl	Mar 08
<b>M57e</b>	9356-AGU	4x4	Core 2 Duo E8400	3.00	6MB	Dual	2GB	250GB	None	DVD±RW	GMA+ADD2	ES40	Bus32	Prem	Gbl	Mar 08

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E4600 with dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 or E8400 with dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		<b>Tower</b> <ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.3" D X 15.8" H</li> <li>175mm W X 440mm D X 402mm H</li> <li>24.2 lb (11.0 kg) in max configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul> 
Implementation			<ul style="list-style-type: none"> <li>Bay ① 5.25", 1.6" high, access, std optical</li> <li>Bay ② 5.25", 1.6" high, access, open</li> <li>Bay ③ 3.5", 1" high, access, open (reader/diskette)</li> <li>Bay ④ 3.5", 1" high, no access, std disk</li> </ul>
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		<ul style="list-style-type: none"> <li>Slot 1: half-length, full-height, PCI Express x16 (75w max)*</li> <li>Slot 2: half-length, full-height, PCI Express x1</li> <li>Slot 3: half-length, full-height, 32-bit PCI 2.3</li> <li>Slot 4: half-length, full-height, 32-bit PCI 2.3</li> </ul>
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-I PCIe Connection Adapter</b> , PCI Express <sup>®</sup> adapter in PCIe x16 slot, provides DVI-I connector to support second monitor, no DVI-to-VGA dongle		* used in some models
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		<p align="center"><b>Security</b></p> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>USB port disablement</li> </ul> <p>Supports ThinkVantage<sup>®</sup> technologies</p> <p>EPEAT<sup>™</sup> Gold rating ENERGY STAR 4.0-compliant RoHS-compliant</p> <p align="center"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>3-year parts and labor</li> <li>International Warranty Service<sup>9</sup></li> <li>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>3-year LOR 9x5, 4 hour response (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>Post warranty maintenance services available</li> <li>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-I in some models)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, 80% PSU		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista <sup>®</sup> Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
	USB 2.0 Lenovo Multimedia Headset	40Y8518	
	USB 2.0 Lenovo Webcam	40Y8519	
	USB 2.0 Essential Memory Key 32GB	45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
	ThinkVision <sup>®</sup> L2440p Wide 24" Monitor	4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Kensington Cable Lock from Lenovo	73P2582	
	ADD2 DVI-I PCIe Connection Adapter	73P2516	
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	
	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB	43R1961	
	ATI Radeon HD 2400 XT 256MB	43R1962	
	ATI Radeon HD 2600 XT 512MB	43R1963	
	NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290	43R1765	
	NVIDIA Quadro 256MB FX 370	43R1766	
	NVIDIA Quadro 512MB FX 1700	43R1767	
	Acc Guide in pdf lenovo.com/accessoriesguide		
	Other accessories at lenovo.com/accessories		
<b>Preloaded applications<sup>5</sup></b>			
• Rescue and Recovery <sup>™</sup>			
• Client Security Solution <sup>™</sup>			
• ThinkVantage Productivity Center			
• ThinkVantage System Update			
• System Migration Assistant			
• Norton Internet Security <sup>™</sup> (90 days of virus definitions)			
• Diskeeper <sup>®</sup> Home			
• PC-Doctor <sup>™</sup> (diagnostics)			
• Adobe <sup>®</sup> Reader			
• Windows Live <sup>™</sup> Toolbar			
• Windows Live Search			
• Picasa from Google			
• Microsoft Office 2007 Trial (60-day)			
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)			
• Corel <sup>®</sup> WinDVD <sup>®</sup> (combo, DVD±RW)			

See footnotes for important warranty information  
US models announced March 18, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>o</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	ENERGY STAR 4.0	Preload	Vista logo	Global Educ	Avail date
ES	<b>M57e</b> 9356-B5U	4x5	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB <sup>2</sup>	Bay	DVD	GMA	ES40	XP Pro	No	Sep 08	
	<b>M57e</b> 9356-B1U	4x4	Core 2 Duo E7200	2.53	3MB	Dual	1GB	160GB		DVD±RW	GMA	ES40	Bus32	Basic	No	Jun 08
ES	<b>M57e</b> 9356-B7U	4x5	Core 2 Duo E7300	2.66	3MB	Dual	1GB	160GB	Bay	DVD±RW	GMA	ES40	Bus32	Prem	No	Sep 08

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<b>Mainstream enterprise stability and manageability</b> Intel® Core™ 2 Duo Processor E7200 or E7300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache										<b>Tower</b>																																																											
Implementation	Processor in FC-LGA8 package in LGA775 socket										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																																											
Memory	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk*																																																											
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										* 2nd Disk Bay is only available on some models  Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																																											
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>																																																											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																																																					
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> (41N5618)																																																																					
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)																																																																					
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors																																																																					
eSATA port	None																																																																					
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector																																																																					
Diskette drive	None																																																																					
Media reader	None																																																																					
Chipset	<b>Intel G31 Express Chipset:</b> I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions												Supports ThinkVantage® technologies  EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant  <b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																																					
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																																																					
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)																																																																					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																																																					
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Intel AMT	None																																																																					
Modem	None																																																																					
Security chip	None																																																																					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																																					
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																																																					
Power supply	280 watts with variable speed fan, autosensing, 80% PSU																																																																					
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA</li> <li>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</li> </ul>										<b>Accessories</b> <table border="0"> <tr><td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4984</td></tr> <tr><td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4985</td></tr> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 2GB</td><td>45J5916</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 4GB</td><td>45J5917</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ADD2 DVI-I PCIe Connection Adapter</td><td>73P2516</td></tr> <tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr> <tr><td>ATI Radeon™ HD 2400 Pro 128MB</td><td>43R1961</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 2600 XT 512MB</td><td>43R1963</td></tr> <tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr> <tr><td>NVIDIA Quadro 256MB FX 370</td><td>43R1766</td></tr> <tr><td>NVIDIA Quadro 512MB FX 1700</td><td>43R1767</td></tr> </table> Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-I PCIe Connection Adapter	73P2516	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 2600 XT 512MB	43R1963	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370	43R1766	NVIDIA Quadro 512MB FX 1700	43R1767
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NVIDIA® Quadro® 256MB NVS 290	43R1765																																																																					
NVIDIA Quadro 256MB FX 370	43R1766																																																																					
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See footnotes for important warranty information

ES US models announced August 19, 2008; previous model on June 24, 2008

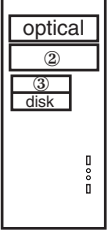


# ThinkCentre® M57e Tower (6176) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	ENERGY STAR 4.0	Vista preload	Global (G) GMP (P)	Avail date
M57e	6176-B1U	4x4	Core 2 Duo E8400	3.00	6MB	Dual	1GB	160GB <sup>2</sup>	None	DVD±RW	GMA	ES40	Business32	G P	Jul 08

• This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

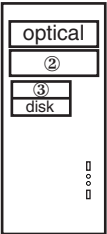
Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB L2 cache Processor in FC-LGA8 package in LGA775 socket										<b>Tower</b>	
Implementation											<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.3" D X 15.8" H</li> <li>175mm W X 440mm D X 402mm H</li> <li>24.2 lb (11.0 kg) in max configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Memory	<b>1GB std</b> , 4GB max <sup>9</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7											
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)											
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors											
eSATA port	None											
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector											
Diskette drive	None											
Media reader	None											
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>USB port disablement</li> </ul>
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)											
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, 80% PSU											
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>Microsoft<sup>®</sup> Windows<sup>®</sup> Vista<sup>®</sup> Business Edition (32-bit)</li> <li>↔ Vista Basic logo</li> </ul>											
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>Rescue and Recovery<sup>™</sup></li> <li>Client Security Solution<sup>™</sup></li> <li>ThinkVantage Productivity Center</li> <li>ThinkVantage System Update</li> <li>System Migration Assistant</li> <li>Norton Internet Security<sup>™</sup> (90 days of virus definitions)</li> <li>Diskeeper<sup>®</sup> Home</li> <li>PC-Doctor<sup>™</sup> (diagnostics)</li> <li>Adobe<sup>®</sup> Reader</li> <li>Windows Live<sup>™</sup> Toolbar</li> <li>Windows Live Search</li> <li>Picasa from Google</li> <li>Microsoft Office 2007 Trial (60-day)</li> <li>Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>Corel<sup>®</sup> WinDVD<sup>®</sup> (DVD±RW)</li> </ul>											
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision<sup>®</sup> L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>											
											Supports ThinkVantage <sup>®</sup> technologies	
											EPEAT <sup>™</sup> Gold rating	
											ENERGY STAR 4.0-compliant	
											RoHS-compliant	
											<b>Limited Warranty<sup>1</sup></b>	
											↔ 3-year parts and labor	
											↔ International Warranty Service <sup>9</sup>	
											↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)	
											↔ Onsite service upgrade options (in eligible locations): <sup>7</sup>	
											• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)	
											• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)	
											• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)	
											↔ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>	
											↔ Post warranty maintenance services available	
											↔ 24 hour x 7 day <sup>14</sup> toll-free support during the warranty period <sup>1</sup> via 800-426-7378	

See footnotes for important warranty information  
US model announced June 24, 2008

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(MONA2-10) June 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
M57e	7064-AAU	4x4	Pentium E2200	2.20	1MB	Dual	1GB	160GB <sup>2</sup>	None	Combo	GMA	Business32	3-yr	G P	Apr 08

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability <b>Intel® Pentium® Dual-Core Processor E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 800MHz system bus with 1MB shared L2 cache		<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA6 package in LGA775 socket		
Memory	<b>1GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk  Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA Combo	CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>9</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista <sup>®</sup> Business Edition (32-bit) ♦ Vista Basic logo		
<b>Preloaded applications<sup>5</sup></b>	• Rescue and Recovery <sup>™</sup> • Client Security Solution <sup>™</sup> • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security <sup>™</sup> (90 days of virus definitions) • Diskeeper <sup>®</sup> Home • PC-Doctor <sup>™</sup> (diagnostics) • Adobe <sup>®</sup> Reader • Windows Live <sup>™</sup> Toolbar • Windows Live Search • Picasa from Google • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo) • Corel <sup>®</sup> WinDVD <sup>®</sup> (combo)		
<b>Accessories</b>	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ThinkVision <sup>™</sup> L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-I PCIe Connection Adapter 73P2516 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 2600 XT 512MB 43R1963 NVIDIA <sup>®</sup> Quadro <sup>®</sup> 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 43R1766 NVIDIA Quadro 512MB FX 1700 43R1767 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
	Supports ThinkVantage <sup>®</sup> technologies		
	RoHS-compliant		
	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ 3-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>		

See footnotes for important warranty information  
US model announced March 18, 2008

## Partial list of accessories supported on ThinkCentre M57e

**Memory**

512MB PC2-5300 CL5 NP DDR2 UDIMM	73P4983	ann 06/28/05
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	ann 06/28/05
2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	ann 09/26/06
512MB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2976	ann 09/26/06
1GB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2977	ann 09/26/06
2GB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2978	ann 01/08/08

<sup>48</sup> When PC2-6400 is installed with systems that have PC2-5300 memory, PC2-6400 will operate at the PC2-5300 memory speed.

**Optical**

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

**Storage and removable storage**

80GB SATA 3.0Gb/s Disk (7200 rpm)	09N4253	ann 05/19/03
160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07

USB Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 Essential Memory Key 1GB	41U4940	ann 01/23/07
USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Security Memory Key 1GB	41U5118	ann 07/17/07
USB 2.0 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

**Graphics**

*Small 6305/9482/9487/6178/7066 support Low Profile 35 watts max:*

ADD2 DVI-I PCIe Connection Adapter	73P2516	ann 06/28/05
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ann 11/06/07
ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07

*Desktop 9481/9438/6177/7065 support Low Profile 35 watts max:*

ADD2 DVI-I PCIe Connection Adapter	73P2516	ann 06/28/05
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 2400 Pro 128MB	43R1961	ann 11/06/07
ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07
ATI Radeon HD 2600 XT 256MB	43R1963	ann 11/06/07
NVIDIA® Quadro® 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB FX 370	43R1766	ann 12/18/07
NVIDIA Quadro 512MB FX 1700	43R1767	ann 12/18/07

*Tower 6179/9439/9356/6176/7064 support 75 watts max:*

ADD2 DVI-I PCIe Connection Adapter	73P2516	ann 06/28/05
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 2400 Pro 128MB	43R1961	ann 11/06/07
ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07
ATI Radeon HD 2600 XT 512MB	43R1963	ann 11/06/07
NVIDIA Quadro 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB FX 370	43R1766	ann 12/18/07
NVIDIA Quadro 512MB FX 1700	43R1767	ann 12/18/07

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Laser Tiit Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Multimedia**

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

**Security**

Kensington® Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

**Monitors**

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

More information at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar (L1900p, 24" Wide)	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

<sup>46</sup>Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 01/31/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 01/31/07
Microsoft Office 2007 Professional, English	43R1531	ann 01/31/07

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)





Lenovo ThinkCentre M57  
with Lenovo widescreen monitor



Lenovo ThinkCentre M57p  
with ThinkVision L190x monitor



Lenovo ThinkCentre M57



Lenovo ThinkCentre M57p



Lenovo ThinkCentre M57  
and ThinkVision monitor on  
Lenovo Vertical PC and Monitor Stand (41R4359)




Lenovo ThinkCentre M57p  
and ThinkVision monitor on  
Lenovo Vertical PC and Monitor Stand (41R4359)

# ThinkCentre® M57 Eco Ultra Small (6395)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	DVI-D conn	Intel vPro	Serial port	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
ES	M57	6395-61U	0x2 Celeron 440	2.00	512KB	1GB	160GB <sup>2</sup>	DVD	GMA	DVI-D	None		Business32	3-yr		Jun 08
ES	M57	6395-62U	0x2 Pentium E2160	1.80	1MB	1GB	160GB	DVD	GMA	DVI-D	None		Business32	3-yr	Educ	Jun 08
	M57	6395-17U	0x2 Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	DVI-D	None		Business32	3-yr		Feb 08
	M57	6395-23U	0x2 Core 2 Duo E8200	2.66	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	None		Business32	3-yr	Gbl	Feb 08
	M57	6395-24U	0x2 Core 2 Duo E8200	2.66	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	None	Serial	Business32	3-yr		Feb 08

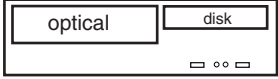
- Only 4.5 liter volume (25% less than the 6.3 liter ThinkCentre M57 Ultra Small)
- Best acoustic and lowest power consumption of all Lenovo desktops

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Celeron® Processor 440</b> with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz system bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	<p><b>Eco Ultra Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk</p> <p>Slots: None</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.5" D X 3.2" H</li> <li>• 275mm W X 242mm D X 81mm H</li> <li>• 7.2 to 8.2lb (3.3 to 3.7kg)</li> <li>• Toolless disk and optical drive removal</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Steel chassis supports 110 lb (50kg) monitor on top</li> <li>• Supports Vertical PC and Monitor Stand (41R4359)</li> </ul>																																								
Implementation																																										
Memory	<p><b>1GB</b> or <b>2GB</b> std, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 200-pin SODIMM sockets (notebook); <i>Non-italics</i>: standard memory in one socket; one socket available</p>																																									
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, supports dual independent display</p>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> <li>• <i>Some</i>: Serial port disablement</li> </ul>																																								
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9																																									
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)																																									
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																																									
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																																									
eSATA port	None																																									
EIDE controller	None																																									
Diskette drive	None																																									
Media reader	None																																									
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 (ICH9) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / <b>SMSC® SCH5617</b> Super I/O for [serial], hardware monitoring (temperature, voltage, fan speed)</p>																																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																									
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DVI-D), <i>Some</i> : serial (9-pin)																																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																									
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																									
Speaker	One internal speaker for business audio																																									
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY/MAC), PCIe x1, ASF 2.0																																									
Intel AMT	None																																									
Modem	None																																									
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																									
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																																									
Power supply	External AC/DC adapter, 120 watts, autosensing, 85% PSU																																									
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® Vista® Business Edition (32-bit)</p> <p>◇ Vista Basic logo</p>																																									
<b>Preloaded applications<sup>5</sup></b> (only some listed)	<ul style="list-style-type: none"> <li>• <i>Some</i>: Education software</li> <li>- VitalSource Library College Edition</li> <li>- Adobe® Instructor Resource Center</li> <li>- Adobe Digital School Collection</li> <li>- Photoshop Elements 6 (and CD)</li> <li>- Premier Elements 4 (and DVD)</li> <li>- Acrobat 8 Professional (and CD)</li> <li>- Contribute 4 (and CD)</li> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> </ul>	<p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 DDR2 SODIMM (notebook)</td> <td>43R1763</td> </tr> <tr> <td>2GB PC2-5300 DDR2 SODIMM (notebook)</td> <td>43R1756</td> </tr> <tr> <td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>43R1990</td> </tr> <tr> <td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>45J7918</td> </tr> <tr> <td>USB Portable Diskette Drive</td> <td>05K9276</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>USB 2.0 Lenovo Webcam</td> <td>40Y8519</td> </tr> <tr> <td>USB 2.0 Essential Memory Key 32GB</td> <td>45K1258</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 8GB</td> <td>45J5918</td> </tr> <tr> <td>USB 2.0 Portable Secure 320GB Hard Disk</td> <td>43R2019</td> </tr> <tr> <td>USB 2.0 Super Multi-Burner Drive</td> <td>41N5565</td> </tr> <tr> <td>ThinkVision® L1940p Wide 19" Monitor</td> <td>4424HB6</td> </tr> <tr> <td>ThinkVision L2240p Wide 22" Monitor</td> <td>4422HB6</td> </tr> <tr> <td>ThinkVision L2440p Wide 24" Monitor</td> <td>4420HB2</td> </tr> <tr> <td>ThinkCentre Ultra Small Under Desk Mount</td> <td>40Y8625</td> </tr> <tr> <td>Lenovo Vertical PC and Monitor Stand</td> <td>41R4359</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>USB Travel Keyboard with UltraNav™</td> <td>31P9490</td> </tr> <tr> <td>Laser Tilt Wheel Mouse (USB, PS/2)</td> <td>41U3074</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> </table> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>	1GB PC2-5300 DDR2 SODIMM (notebook)	43R1763	2GB PC2-5300 DDR2 SODIMM (notebook)	43R1756	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	ThinkCentre Ultra Small Under Desk Mount	40Y8625	Lenovo Vertical PC and Monitor Stand	41R4359	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	USB Travel Keyboard with UltraNav™	31P9490	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582
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Laser Tilt Wheel Mouse (USB, PS/2)	41U3074																																									
Kensington Cable Lock from Lenovo	73P2582																																									
		<p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>																																								

See footnotes for important warranty information  
 ES US models announced May 20, 2008; previous models on February 12, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>5</sup>	SATA disk	SATA optical	Graphics	DVI-D conn	Intel vPro	Card slot	Serial port	Preload	Global Educ	Avail date
M57	6395-84U	0x2	Pentium E2200	2.20	1MB	1GB	160GB <sup>2</sup>	DVD	GMA	DVI-D	None		Serial	XP Pro	None	Sep 08
M57	6395-85U	0x2	Pentium E2200	2.20	1MB	2GB	250GB	DVD±RW	GMA	DVI-D	None	/54		XP Pro	None	Sep 08
M57	6395-82U	0x2	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD	GMA	DVI-D	None		Serial	XP Pro	None	Sep 08
M57	6395-83U	0x2	Core 2 Duo E7200	2.53	3MB	2GB	250GB	DVD±RW	GMA	DVI-D	None	/54		XP Pro	None	Sep 08
M57	6395-88U	0x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB	DVD	GMA	DVI-D	None		Serial	XP Pro	None	Sep 08
M57	6395-89U	0x2	Core 2 Duo E8200	2.66	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	None	/54		XP Pro	None	Sep 08
M57	6395-86U	0x2	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	DVI-D	None		Serial	XP Pro	None	Sep 08
M57	6395-87U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	None	/54		XP Pro	None	Sep 08

- Only 4.5 liter volume (25% less than the 6.3 liter ThinkCentre M57 Ultra Small)
- Best acoustic and lowest power consumption of all Lenovo desktops
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E7200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> or <b>E8400</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	<p><b>Eco Ultra Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk</p> <p>Slots: None</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.5" D X 3.2" H</li> <li>• 275mm W X 242mm D X 81mm H</li> <li>• 7.2 to 8.2lb (3.3. to 3.7kg)</li> <li>• Toolless disk and optical drive removal</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Steel chassis supports 110 lb (50kg) monitor on top</li> <li>• Supports Vertical PC and Monitor Stand (41R4359)</li> </ul>
Implementation		
Memory	<p><b>1GB</b> or <b>2GB</b> std, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 200-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available</p>	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, supports dual independent display</p>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Individual USB port disablement</li> <li>• <i>Some:</i> Serial port disablement</li> </ul>
SATA disk	<p><b>160GB</b> or <b>250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar	
eSATA port	None	
EIDE controller	None	
Diskette drive	None	
Media reader	None	
Chipset	<p><b>Intel Q35 Express Chipset:</b> I/O Controller Hub 9 (ICH9) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for [serial], hardware monitoring (temperature, voltage, fan speed)</p>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DVI-D), <i>Some:</i> serial (9-pin)	Supports ThinkVantage® technologies
ExpressCard/54	<i>Some:</i> One slot (ExpressCard/34, ExpressCard/54)	EPEAT™ Gold rating
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	ENERGY STAR® 4.0-compliant
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	GREENGUARD® certified
Speaker	One internal speaker for business audio	RoHS-compliant
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY/MAC), PCIe x1, ASF 2.0	
Intel AMT	None	
Modem	None	
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant	<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo	
Power supply	External AC/DC adapter, 120 watts, autosensing, 85% PSU	
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® XP Professional with Vista® COA</li> <li>↪ Disk-to-Disk Recovery (in hidden protected area)</li> </ul>	<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1GB PC2-5300 DDR2 SODIMM (notebook) 43R1763</li> <li>2GB PC2-5300 DDR2 SODIMM (notebook) 43R1756</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision® L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>ThinkCentre Ultra Small Under Desk Mount 40Y8625</li> <li>Lenovo Vertical PC and Monitor Stand 41R4359</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>USB Travel Keyboard with UltraNav™ 31P9490</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>

See footnotes for important warranty information  
US models announced August 19, 2008



# ThinkCentre® M57p Eco Ultra Small (6395)

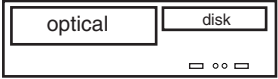
Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>o</sup>	SATA disk	SATA optical	Graphics	DVI-D conn	Intel vPro	Serial port	Vista preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
<b>M57p</b>	6395-36U	0x2	Core 2 Duo E8200	2.66	6MB	2GB	160GB <sup>2</sup>	DVD±RW	GMA	DVI-D	vPro		Business32	3-yr	Gbl	Feb 08
<b>M57p</b>	6395-37U	0x2	Core 2 Duo E8200	2.66	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	vPro	Serial	Business32	3-yr		Feb 08
<b>M57p</b>	6395-26U	0x2	Core 2 Duo E8400	3.00	6MB	1GB	320GB	DVD±RW	GMA	DVI-D	vPro		Business32	3-yr		Feb 08
<b>M57p</b>	6395-27U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD	GMA	DVI-D	vPro		Business32	3-yr		Feb 08
<b>M57p</b>	6395-28U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD	GMA	DVI-D	vPro	Serial	Business32	3-yr		Feb 08
<b>M57p</b>	6395-29U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	vPro		Business32	3-yr	Gbl	Feb 08
<b>M57p</b>	6395-31U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	DVI-D	vPro		Business32	3-yr	HE	Feb 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **Only 4.5 liter volume (25% less than the 6.3 liter ThinkCentre M57 Ultra Small)**
- **Best acoustic and lowest power consumption of all Lenovo desktops**

Positioning Processor	<i>Ultimate enterprise stability and manageability for large enterprise</i> <b>Intel® Core™ 2 Duo Processor E8200 or E8400 with dual-core,</b> dual-channel capable, two 200-pin SODIMM sockets (notebook); EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket	<b>Eco Ultra Small</b>	
Implementation			
Memory	<b>1GB or 2GB std,</b> 4GB max <sup>o</sup> , <b>PC2-5300 667MHz DDR2,</b> non-parity, dual-channel capable, two 200-pin SODIMM sockets (notebook); <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slots: None	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100),</b> integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, supports dual independent display	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.5" D X 3.2" H</li> <li>• 275mm W X 242mm D X 81mm H</li> <li>• 7.2 to 8.2lb (3.3. to 3.7kg)</li> <li>• Toolless disk and optical drive removal</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Steel chassis supports 110 lb (50kg) monitor on top</li> <li>• Supports Vertical PC and Monitor Stand (41R4359)</li> </ul>	
SATA disk	<b>160GB or 320GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar		
eSATA port	None		
EIDE controller	None		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel Q35 Express Chipset;</b> I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC <sup>®</sup> SCH5617 Super I/O for [serial], hardware monitoring (temperature, voltage, fan speed)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DVI-D), <i>Some:</i> serial (9-pin)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, ASF 2.0, Wake on LAN <sup>®</sup>		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	External AC/DC adapter, 120 watts, autosensing, 85% PSU		
			<b>Security</b>
			<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> <li>• <i>Some:</i> Serial port disablement</li> </ul>
			Supports ThinkVantage <sup>®</sup> technologies
			EPEAT™ Gold rating ENERGY STAR <sup>®</sup> 4.0-compliant GREENGUARD <sup>®</sup> certified RoHS-compliant
			<b>Limited Warranty<sup>1</sup></b>
			<ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
<b>Preloaded operating system<sup>20</sup></b>		<b>Accessories</b>	
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista <sup>®</sup> Business Edition (32-bit)		1GB PC2-5300 DDR2 SODIMM (notebook)	43R1763
↔ Vista Basic logo		2GB PC2-5300 DDR2 SODIMM (notebook)	43R1756
<b>Preloaded applications<sup>5</sup></b>		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• <i>Some (HE):</i> Higher education software		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
- VitalSource Library College Edition		USB 2.0 Lenovo Multimedia Headset	40Y8518
- Adobe <sup>®</sup> Instructor Resource Center		USB 2.0 Lenovo Webcam	40Y8519
- Adobe Photoshop Elements 5 (and CD)		USB 2.0 Essential Memory Key 32GB	45K1258
- Adobe Premier Elements 3 (and DVD)		USB 2.0 Security Memory Key 4GB	41U5120
• Rescue and Recovery™		USB 2.0 Ultra Secure Memory Key 2GB	45J5916
• Client Security Solution™		USB 2.0 Ultra Secure Memory Key 4GB	45J5917
• ThinkVantage Productivity Center		USB 2.0 Ultra Secure Memory Key 8GB	45J5918
• ThinkVantage System Update		USB 2.0 Portable 160GB Hard Disk	43R1784
• System Migration Assistant		USB 2.0 Portable Secure 320GB Hard Disk	43R2019
• Norton Internet Security™		ThinkVision <sup>®</sup> L1700p 17" Monitor	9417HE2
• Diskeeper <sup>®</sup> Home		ThinkVision L1940p Wide 19" Monitor	4424HB6
• PC-Doctor™ (diagnostics)		ThinkVision L2240p Wide 22" Monitor	4422HB6
• Adobe Reader		ThinkVision L2440p Wide 24" Monitor	4420HB2
• Windows Live™ Toolbar		ThinkCentre Ultra Small Under Desk Mount	40Y8625
• Windows Live Search		Lenovo Vertical PC and Monitor Stand	41R4359
• Picasa from Google		Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
• Microsoft Office 2007 Trial (60-day)		USB Travel Keyboard with UltraNav™	31P9490
• Sonic RecordNow and Drive Letter Access (DVD±RW)		Laser Tilt Wheel Mouse (USB, PS/2)	41U3074
• Corel <sup>®</sup> WinDVD <sup>®</sup> (DVD, DVD±RW)		Kensington Cable Lock from Lenovo	73P2582
		Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
		Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

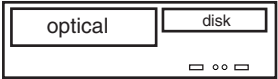
See footnotes for important warranty information  
US models announced February 12, 2008

# ThinkCentre® M57p Eco Ultra Small (6395) - August 2008

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	DVI-D conn	Intel vPro	Card slot	Serial port	Preload	Global Educ	Avail date
<b>M57p</b>	6395-57U	0x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB <sup>2</sup>	DVD	GMA	DVI-D	vPro		Serial	XP Pro	None	Sep 08
<b>M57p</b>	6395-56U	0x2	Core 2 Duo E8200	2.66	6MB	2GB	250GB	DVD±RW	GMA	DVI-D	vPro	/54	Serial	XP Pro	None	Sep 08
<b>M57p</b>	6395-54U	0x2	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	DVI-D	vPro		Serial	XP Pro	None	Sep 08
<b>M57p</b>	6395-55U	0x2	Core 2 Duo E8400	3.00	6MB	2GB	250GB	DVD±RW	GMA	DVI-D	vPro	/54	Serial	XP Pro	None	Sep 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **Only 4.5 liter volume (25% less than the 6.3 liter ThinkCentre M57 Ultra Small)**
- **Best acoustic and lowest power consumption of all Lenovo desktops**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate enterprise stability and manageability for large enterprise</i> <b>Intel® Core™ 2 Duo Processor E8200 or E8400 with dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket		<b>Eco Ultra Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slots: None	
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 200-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.5" D X 3.2" H</li> <li>• 275mm W X 242mm D X 81mm H</li> <li>• 7.2 to 8.2lb (3.3 to 3.7kg)</li> <li>• Toolless disk and optical drive removal</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Steel chassis supports 110 lb (50kg) monitor on top</li> <li>• Supports Vertical PC and Monitor Stand (41R4359)</li> </ul>	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, supports dual independent display		<p align="center"><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Individual USB port disablement</li> <li>• <i>Some:</i> Serial port disablement</li> </ul> <p align="center">Supports ThinkVantage® technologies</p> <p align="center">EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant</p> <p align="center"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO			
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)			
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar			
eSATA port	None			
EIDE controller	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q35 Express Chipset:</b> I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for [serial], hardware monitoring (temperature, voltage, fan speed)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DVI-D), <i>Some:</i> serial (9-pin)			
ExpressCard/54	<i>Some:</i> One slot (ExpressCard/34, ExpressCard/54)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, ASF 2.0, Wake on LAN <sup>®</sup>			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	External AC/DC adapter, 120 watts, autosensing, 85% PSU			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>			
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 DDR2 SODIMM (notebook) 43R1763			
◇ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 DDR2 SODIMM (notebook) 43R1756			
	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918			
	USB 2.0 Lenovo Multimedia Headset 40Y8518			
	USB 2.0 Lenovo Webcam 40Y8519			
	USB 2.0 Essential Memory Key 32GB 45K1258			
	USB 2.0 Ultra Secure Memory Key 2GB 45J5916			
	USB 2.0 Ultra Secure Memory Key 4GB 45J5917			
	USB 2.0 Ultra Secure Memory Key 8GB 45J5918			
	USB 2.0 Portable 160GB Hard Disk 43R1784			
	USB 2.0 Portable Secure 320GB Hard Disk 43R2019			
	ThinkVision® L1700p 17" Monitor 9417HE2			
	ThinkVision L1940p Wide 19" Monitor 4424HB6			
	ThinkVision L2240p Wide 22" Monitor 4422HB6			
	ThinkVision L2440p Wide 24" Monitor 4420HB2			
	ThinkCentre Ultra Small Under Desk Mount 40Y8625			
	Lenovo Vertical PC and Monitor Stand 41R4359			
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067			
	USB Travel Keyboard with UltraNav™ 31P9490			
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074			
	Kensington Cable Lock from Lenovo 73P2582			
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>			
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>			

See footnotes for important warranty information  
US models announced August 19, 2008

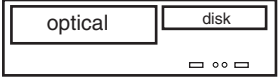
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(BLLF1-5) September 2008

# ThinkCentre® M57p Eco Ultra Small (6397) - GMP

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	DVI-D conn	Intel vPro	Serial port	Vista preload	Limited warranty <sup>1</sup>	Global (G) GMP (P)	Avail date
<b>M57p</b>	6397-11U	0x2	Core 2 Duo E8200	2.66	6MB	2GB	160GB <sup>2</sup>	DVD	GMA	DVI-D	vPro	None	Business32	3-yr	G P	Feb 08

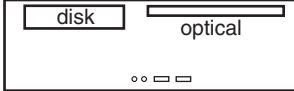
- **This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**
- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **Only 4.5 liter volume (25% less than the 6.3 liter ThinkCentre M57 Ultra Small)**
- **Best acoustic and lowest power consumption of all Lenovo desktops**

Positioning Processor	<i>Ultimate enterprise stability and manageability for large enterprise</i>		<b>Eco Ultra Small</b>			
Implementation	<b>Intel® Core™ 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slots: None			
Memory	<b>2GB std</b> , 4GB max <sup>9</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 200-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.5" D X 3.2" H</li> <li>• 275mm W X 242mm D X 81mm H</li> <li>• 7.2 to 8.2lb (3.3. to 3.7kg)</li> <li>• Toolless disk and optical drive removal</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Steel chassis supports 110 lb (50kg) monitor on top</li> <li>• Supports Vertical PC and Monitor Stand (41R4359)</li> </ul>			
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, supports dual independent display		<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> </ul>			
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO					
SATA DVD	DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)					
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors					
eSATA port	None					
EIDE controller	None					
Diskette drive	None					
Media reader	None					
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC <sup>®</sup> SCH5617 Super I/O for hardware monitoring (temperature, voltage, fan speed)					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DVI-D)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec					
Speaker	One internal speaker for business audio					
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, ASF 2.0, Wake on LAN <sup>®</sup>					
Intel AMT	Intel Active Management Technology (iAMT)					
Modem	None					
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo					
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo					
Power supply	External AC/DC adapter, 120 watts, autosensing, 85% PSU				Supports ThinkVantage <sup>®</sup> technologies	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>				EPEAT™ Gold rating ENERGY STAR <sup>®</sup> 4.0-compliant GREENGUARD <sup>®</sup> certified RoHS-compliant	
- Microsoft <sup>®</sup> Windows <sup>®</sup> Vista <sup>®</sup> Business Edition (32-bit)	1GB PC2-5300 DDR2 SODIMM (notebook)		43R1763			
◇ Vista Basic logo	2GB PC2-5300 DDR2 SODIMM (notebook)		43R1756			
	500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990			
	1TB SATA 3.0Gb/s Disk (7200 rpm)		45J7918			
	USB Portable Diskette Drive		05K9276			
	USB 2.0 Lenovo Multimedia Headset		40Y8518			
	USB 2.0 Lenovo Webcam		40Y8519			
	USB 2.0 Essential Memory Key 32GB		45K1258			
	USB 2.0 Security Memory Key 4GB		41U5120			
	USB 2.0 Ultra Secure Memory Key 2GB		45J5916			
	USB 2.0 Ultra Secure Memory Key 4GB		45J5917			
	USB 2.0 Ultra Secure Memory Key 8GB		45J5918			
	USB 2.0 Portable 160GB Hard Disk		43R1784			
	USB 2.0 Portable Secure 320GB Hard Disk		43R2019			
	Super Multi-Burner DL DVD±RW SATA Drive		41N5620			
	ThinkVision <sup>®</sup> L1700p 17" Monitor		9417HE2			
	ThinkVision L1940p Wide 19" Monitor		4424HB6			
	ThinkVision L2240p Wide 22" Monitor		4422HB6			
	ThinkVision L2440p Wide 24" Monitor		4420HB2			
	ThinkCentre Ultra Small Under Desk Mount		40Y8625			
	Lenovo Vertical PC and Monitor Stand		41R4359			
	Wireless Kbd & Opt Wheel Mouse (via USB)		73P4067			
	USB Travel Keyboard with UltraNav™		31P9490			
	Laser Tilt Wheel Mouse (USB, PS/2)		41U3074			
	Kensington Cable Lock from Lenovo		73P2582			
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>					
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>					
					<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus™ part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information  
 US model announced February 12, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>9</sup>	SATA disk	EIDE optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
⚠	M57	6071-BDU	1x2	Pentium E2140	1.60	1MB 1GB	80GB <sup>2</sup>	Combo	GMA	eSATA	None	XP Pro	3-yr		Oct 07
⚠	M57	6071-B8U	1x2	Pentium E2160	1.80	1MB 1GB	80GB	Combo	GMA	eSATA	None	Business32	3-yr	Gbl	Nov 07
	M57	6071-B9U	1x2	Pentium E2160	1.80	1MB 1GB	160GB	DVD±RW	GMA	eSATA	None	Business32	3-yr		Oct 07
⚠	M57	6071-A2U	1x2	Core 2 Duo E4400	2.00	2MB 1GB	80GB	Combo	GMA	eSATA	None	Business32	3-yr		Oct 07
⚠	M57	6071-ACU	1x2	Core 2 Duo E4400	2.00	2MB 1GB	160GB	DVD±RW	GMA	eSATA	None	Business32	3-yr		Oct 07
	M57	6071-A3U	1x2	Core 2 Duo E6550	2.33	4MB 1GB	80GB	Combo	GMA	eSATA	None	Business32	3-yr	Gbl	Oct 07
	M57	6071-ADU	1x2	Core 2 Duo E6550	2.33	4MB 1GB	160GB	DVD±RW	GMA	eSATA	None	Business32	3-yr		Oct 07

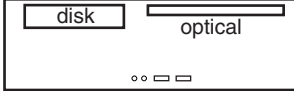
Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i>  <b>Intel® Pentium® Dual-Core Processor E2140 or E2160 with dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or  <b>Intel Core™ 2 Duo Processor E4400 with dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or  <b>Intel Core 2 Duo Processor E6550 with dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket</p>		<p><b>Ultra Small</b></p> 
Implementation			<p>Bay ① 3.5", 1" high, no access, std disk (desktop)                  Bay ② 5.25", *.5" high, access, std optical (notebook)                  * Optical bay is Ultrabay™ Enhanced 12.7mm high (uses select ThinkPad-based Ultrabay Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high] devices)</p>
Memory	<p><b>1GB std, 4GB max<sup>9</sup>, PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets;  <i>Non-italics</i>: standard memory in one socket; one socket available</p>		<p>Slot 1: half-length (175mm), full-height, 32-bit PCI 2.3 (5v)</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.9" W X 10.7" D X 3.5" H</li> <li>• 276mm W X 273mm D X 89mm H</li> <li>• 14.1 lb (6.4 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Bays 1 and 2 flip up (latched and pivoting)</li> <li>• Toolless PCI slot and riser card retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>
SATA disk	<p><b>80GB or 160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>		<p>Supports ThinkVantage® technologies</p>
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9</p>		
SATA cables	<p>One SATA cable (1-drop to disk), one SATA connector on planar</p>		<p>RoHS-compliant</p>
eSATA port	<p>One external SATA (eSATA) port</p>		
EIDE Combo	<p><i>Some</i>: 24X/24X/24X/8X Max<sup>11</sup> CD-RW/DVD-ROM Combo Drive, Ultrabay Enhanced (12.7mm high)</p>		<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
EIDE DVD±RW	<p><i>Some</i>: Multi-Burner DL DVD±RW Drive, Ultrabay Enhanced (12.7mm high)</p>		
EIDE controller	<p>Enhanced IDE, ATA-133, via EIDE bridge Silicon Image™ SIL3811 from ICH9</p>		
EIDE cables	<p>One cable (one 1-drop Ultrabay Enhanced cable to optical), one EIDE connector (Ultrabay Enhanced) on systemboard</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q35 Express Chipset</b>;                  I/O Controller Hub 9 (ICH9) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		
Mouse	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>		
Power supply	<p>225 watts with variable speed fan, autosensing, two diagnostic LEDs</p>		
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>		
- <i>Some</i> : Microsoft® Windows® XP Professional	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
- <i>Some</i> : Microsoft Windows Vista® Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
↕ <i>Vista models</i> : Vista Basic logo	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
• Rescue and Recovery™	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
• Client Security Solution™	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset	40Y8518	
• ThinkVantage System Update	USB 2.0 Lenovo Webcam	40Y8519	
• System Migration Assistant	USB 2.0 Essential Memory Key 32GB	45K1258	
• Norton Internet Security™	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
• Diskeeper® Home	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
• PC-Doctor™ (diagnostics)	USB 2.0 Super Multi-Burner Drive	41N5565	
• Picasa from Google	ThinkVision® L1700p 17" Monitor	9417HE2	
• Microsoft Office 2007 Trial (60-day)	ThinkVision L1940p Wide 19" Monitor	4424HB6	
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)	ThinkVision L2240p Wide 22" Monitor	4422HB6	
• Corel® WinDVD® (combo, DVD±RW)	ThinkVision L2440p Wide 24" Monitor	4420HB2	
	ThinkCentre Ultra Small Under Desk Mount	40Y8625	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information

⚠ US model announced October 16, 2007; previous models on September 18, 2007

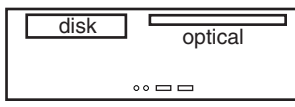
⚠ US models withdrawn effective June or September 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	EIDE optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	6071-BRU	1x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB <sup>2</sup>	Combo	GMA	eSATA	None	XP Pro	3-yr	None	Feb 08
M57	6071-DJU	1x2	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	eSATA	None	Business32	3-yr	None	Feb 08
M57	6071-DHU	1x2	Core 2 Duo E4500	2.20	2MB	1GB	160GB	Combo	GMA	eSATA	None	Business32	3-yr	None	Feb 08
M57	6071-BQU	1x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	None	Business32	3-yr	None	Feb 08

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i>  <b>Intel® Core™ 2 Duo Processor E4500 with dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200 with dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Ultra Small</b></p> 
Implementation			<p>Bay ① 3.5", 1" high, no access, std disk (desktop)                  Bay ② 5.25", *.5" high, access, std optical (notebook)</p>
Memory	<p><b>1GB std</b>, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; one socket available</p>		<p>* Optical bay is Ultrabay™ Enhanced 12.7mm high (uses select ThinkPad-based Ultrabay Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high] devices)</p>
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector</p>		<p>Slot 1: half-length (175mm), full-height, 32-bit PCI 2.3 (5v)</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.9" W X 10.7" D X 3.5" H</li> <li>• 276mm W X 273mm D X 89mm H</li> <li>• 14.1 lb (6.4 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Bays 1 and 2 flip up (latched and pivoting)</li> <li>• Toolless PCI slot and riser card retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations)<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9</p>		
SATA cables	<p>One SATA cable (1-drop to disk), one SATA connector on planar</p>		
eSATA port	<p>One external SATA (eSATA) port</p>		
EIDE DVD	<p><i>Some</i>: 8X/24X Max<sup>4</sup> DVD-ROM, Ultrabay Enhanced (12.7mm)</p>		
EIDE Combo	<p><i>Some</i>: 24X/24X/24X/8X Max<sup>11</sup> CD-RW/DVD-ROM Combo, Ultrabay Enhanced (12.7mm high)</p>		
EIDE controller	<p>Enhanced IDE, ATA-133, via EIDE bridge Silicon Image™ SIL3811 from ICH9</p>		
EIDE cables	<p>One cable (one 1-drop Ultrabay Enhanced cable to optical), one EIDE connector (Ultrabay Enhanced) on systemboard</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q35 Express Chipset</b>: I/O Controller Hub 9 (ICH9) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		
Mouse	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>		
Power supply	<p>225 watts with variable speed fan, autosenesing, two diagnostic LEDs</p>		
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>		
- <i>Some</i> : Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	
- <i>Some</i> : Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	
↔ <i>Vista models</i> : Vista Basic logo	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
<b>Preloaded applications<sup>5</sup> (all OSes)</b>	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
• Rescue and Recovery™	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
• Client Security Solution™	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset	40Y8518	
• ThinkVantage System Update	USB 2.0 Lenovo Webcam	40Y8519	
• System Migration Assistant	USB 2.0 Essential Memory Key 32GB	45K1258	
• Norton Internet Security™	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	
• Diskeeper® Home	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
• Adobe® Reader	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
• Windows Live™ Toolbar	USB 2.0 Super Multi-Burner Drive	41N5565	
• Windows Live Search	ThinkVision® L1700p 17" Monitor	9417HE2	
• Picasa from Google	ThinkVision L1940p Wide 19" Monitor	4424HB6	
• Microsoft Office 2007 Trial (60-day)	ThinkVision L2240p Wide 22" Monitor	4422HB6	
• Multimedia Center for Think Offerings (combo) (XP)	ThinkVision L2440p Wide 24" Monitor	4420HB2	
• Sonic RecordNow and Drive Letter Access (combo)	ThinkCentre Ultra Small Under Desk Mount	40Y8625	
• Corel® WinDVD® (combo, DVD)	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	USB Travel Keyboard with UltraNav™	31P9490	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information  
 US models announced January 22, 2008  
 ⚠ US models withdrawn effective September 2008



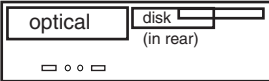
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>9</sup>	SATA disk	EIDE optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	6071-E3U	1x2	Pentium E2200	2.20	1MB	1GB	160GB <sup>2</sup>	DVD	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E4U	1x2	Pentium E2200	2.20	1MB	2GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E5U	1x2	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E7U	1x2	Core 2 Duo E7200	2.53	3MB	2GB	160GB	DVD	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E6U	1x2	Core 2 Duo E7300	2.66	3MB	2GB	250GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E9U	1x2	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E8U	1x2	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD	GMA+ADD2	eSATA	No	XP Pro	3-yr	None	Sep 08
M57	6071-E1U	1x2	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD	GMA+ADD2	eSATA	No	Bus32	3-yr	None	Sep 08
M57	6071-E2U	1x2	Core 2 Duo E7300	2.66	3MB	1GB	250GB	DVD±RW	GMA+ADD2	eSATA	No	Bus32	3-yr	None	Sep 08
Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i>  <b>Intel® Pentium® Dual-Core Processor E2200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or  <b>Intel Core™ 2 Duo Processor E7200</b> or <b>E7300</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or  <b>Intel Core 2 Duo Processor E8400</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>								<p><b>Ultra Small</b></p> 		<p>Bay ① 3.5", 1" high, no access, std disk (desktop)                  Bay ② 5.25", *.5" high, access, std optical (notebook)</p>				
Implementation	<p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>								<p>Slot 1: half-length (175mm), full-height, PCI Express x1 (via riser card; used by ADD2 DVI-D adapter)</p>		<p>* Optical bay is Ultrabay™ Enhanced 12.7mm high (uses select ThinkPad-based Ultrabay Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high] devices)</p>				
Memory	<p><b>1GB</b> or <b>2GB</b> std, 4GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; one socket available</p>								<p>• Business black color; metal case                  • 10.9" W X 10.7" D X 3.5" H                  • 276mm W X 273mm D X 89mm H                  • 14.1 lb (6.4 kg) in maximum configuration</p>		<p>• Toolless cover flips up and tilts backward on rear hinges                  • Toolless disk and optical drive removal                  • Bays 1 and 2 flip up (latched and pivoting)                  • PCI Express x1 slot on riser card (one 32-bit PCI 2.3 slot also on riser but not supported simultaneously)                  • Toolless adapter and riser card retention                  • Steel chassis supports 100 lb (45kg) monitor on top                  • System floor stand for vertical orientation</p>				
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector  <b>ADD2 DVI-D Monitor Connection (HDCP)</b>, PCI Express® adapter in PCIe x1 slot, provides DVI-D connector to support second monitor, HDCP-compliant</p>								<p>• Toolless cover flips up and tilts backward on rear hinges                  • Toolless disk and optical drive removal                  • Bays 1 and 2 flip up (latched and pivoting)                  • PCI Express x1 slot on riser card (one 32-bit PCI 2.3 slot also on riser but not supported simultaneously)                  • Toolless adapter and riser card retention                  • Steel chassis supports 100 lb (45kg) monitor on top                  • System floor stand for vertical orientation</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>				
SATA disk	<p><b>160GB</b> or <b>250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>								<p>• Security chip (see information on left)</p>		<p>Supports ThinkVantage® technologies</p>				
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>RoHS-compliant</p>				
SATA cables	<p>One SATA cable (1-drop to disk), one SATA connector on planar</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p><b>Limited Warranty<sup>1</sup></b></p>				
eSATA port	<p>One external SATA (eSATA) port</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>3-year parts and labor</b></p>				
EIDE DVD	<p><i>Some:</i> 8X/24X Max<sup>4</sup> DVD-ROM, Ultrabay Enhanced (12.7mm)</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>International Warranty Service<sup>9</sup></b></p>				
EIDE DVD±RW	<p><i>Some:</i> Multi-Burner DL DVD±RW Drive, Ultrabay Enhanced (12.7mm high)</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></p>				
EIDE controller	<p>Enhanced IDE, ATA-133, via EIDE bridge Silicon Image™ SIL3811 from ICH9</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b></p>				
EIDE cables	<p>One cable (one 1-drop Ultrabay Enhanced cable to optical), one EIDE connector (Ultrabay Enhanced) on systemboard</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</p>				
Diskette drive	<p>None</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</p>				
Media reader	<p>None</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</p>				
Chipset	<p><b>Intel Q35 Express Chipset:</b>                  I/O Controller Hub 9 (ICH9) for SATA 3.0Gb/s, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</p>				
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</p>				
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15, DVI-D), eSATA</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></p>				
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>		<p>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup></b></p>				
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Speaker	<p>One internal speaker for business audio</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Ethernet	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Intel AMT	<p>None</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Modem	<p>None</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Mouse	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
Power supply	<p>225 watts with variable speed fan, autosensing, two diagnostic LEDs</p>								<p>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</p>						
<b>Preloaded operating system<sup>20</sup></b>				<b>Accessories</b>											
- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA				1GB PC2-5300 CL5 NP DDR2 UDIMM				73P4984							
- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)				2GB PC2-5300 CL5 NP DDR2 UDIMM				73P4985							
↕ <i>Vista models:</i> Vista Premium logo				1GB PC2-6400 NP DDR2 UDIMM				41U2977							
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)				2GB PC2-6400 NP DDR2 UDIMM				41U2978							
• Rescue and Recovery™				500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990							
• Client Security Solution™				USB 2.0 Lenovo Multimedia Headset				40Y8518							
• ThinkVantage Productivity Center				USB 2.0 Lenovo Webcam				40Y8519							
• Norton Internet Security™				USB 2.0 Ultra Secure Memory Key 8GB				45J5918							
• Microsoft Office 2007 Trial (60-day)				USB 2.0 Portable Secure 320GB Hard Disk				43R2019							
• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)				ThinkVision® L2240p Wide 22" Monitor				4422HB6							
• Sonic RecordNow and Drive Letter Access (DVD±RW)				ThinkVision L2440p Wide 24" Monitor				4420HB2							
• Corel® WinDVD® (DVD, DVD±RW)				ThinkCentre Ultra Small Under Desk Mount				40Y8625							
• Corel WinDVD Creator (DVD±RW) (XP)				Wireless Kbd & Opt Wheel Mouse (via USB)				73P4067							
				USB Travel Keyboard with UltraNav™				31P9490							
				Laser Tilt Wheel Mouse (USB, PS/2)				41U3074							
				Kensington Cable Lock from Lenovo				73P2582							
				Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>											
				Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>											

See footnotes for important warranty information  
 US models announced August 19, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Vista logo	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	9970-A1U	2x3	Pentium E2200	2.20	1MB	1GB	160GB <sup>2</sup>	DVD	GMA	eSATA	No	XP Pro		3-yr	No	Jun 08
M57	9970-A2U	2x3	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA	eSATA	No	XP Pro		3-yr	No	Jun 08
M57	9970-A3U	2x3	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD±RW	GMA	eSATA	No	XP Pro		3-yr	No	Jun 08
M57	9970-A4U	2x3	Pentium E2200	2.20	1MB	1GB	160GB	DVD	GMA	eSATA	No	Bus32	Prem	3-yr	No	Aug 08
M57	9970-A5U	2x3	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA	eSATA	No	Bus32	Prem	3-yr	No	Aug 08

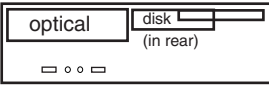
**• These small and medium business (SMB) models are part of the US TopSeller™ Program**

Positioning Processor	<p><b>Ultimate stability for small and medium businesses</b></p> <p><b>Intel® Pentium® Dual-Core Processor E2200 with dual-core,</b> Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E7200 with dual-core,</b> Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or <b>Intel Core 2 Duo Processor E8400 with dual-core,</b> Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>	<p><b>Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader/diskette)</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)                  Slot 2: Low Profile, 32-bit PCI 2.3 (5v)</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>																																											
Implementation	<p><b>1GB std, 8GB max<sup>8</sup>, PC2-5300 667MHz DDR2,</b> non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>																																												
Memory	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100),</b> integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>																																												
Graphics	<p><b>160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</b> Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support  <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)  <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)                  Two SATA cables (each 1-drop to device), two SATA connectors on planar</p> <p>One external SATA (eSATA) port</p> <p>None</p> <p>None</p> <p>None</p>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>																																											
SATA disk	<p><b>Intel Q35 Express Chipset;</b> I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>																																												
SATA controller	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>																																												
SATA DVD	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA</p>																																												
SATA DVD±RW	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>																																												
SATA cables	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>																																												
eSATA port	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>																																												
EIDE controller	<p>One internal speaker for business audio</p>																																												
Diskette drive	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0</p>																																												
Media reader	<p>None</p>																																												
Chipset	<p>None</p>																																												
Front ports	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>																																												
Rear ports	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>																																												
Internal connector	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>																																												
Rear audio ports	<p>280 watts with variable speed fan, autosensing, two diagnostic LEDs</p>																																												
Audio	<p><b>Preloaded operating system<sup>20</sup></b></p> <p>- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA</p> <p>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</p> <p><b>Preloaded applications<sup>5</sup> (all OSes)</b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW) (XP)</li> </ul> <p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4984</td> </tr> <tr> <td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4985</td> </tr> <tr> <td>1GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2977</td> </tr> <tr> <td>2GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2978</td> </tr> <tr> <td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>41N3015</td> </tr> <tr> <td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>43R1990</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>USB 2.0 Lenovo Webcam</td> <td>40Y8519</td> </tr> <tr> <td>USB 2.0 Essential Memory Key 32GB</td> <td>45K1258</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 8GB</td> <td>45J5918</td> </tr> <tr> <td>USB 2.0 Portable 160GB Hard Disk</td> <td>43R1784</td> </tr> <tr> <td>USB 2.0 Portable Secure 320GB Hard Disk</td> <td>43R2019</td> </tr> <tr> <td>USB 2.0 Super Multi-Burner Drive</td> <td>41N5565</td> </tr> <tr> <td>ThinkVision® L1940p Wide 19" Monitor</td> <td>4424HB6</td> </tr> <tr> <td>ThinkVision L2240p Wide 22" Monitor</td> <td>4422HB6</td> </tr> <tr> <td>ThinkVision L2440p Wide 24" Monitor</td> <td>4420HB2</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>Laser Tilt Wheel Mouse (USB, PS/2)</td> <td>41U3074</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> <tr> <td>ADD2 DVI-D Monitor Connection (HDCP)</td> <td>43R1985</td> </tr> <tr> <td>ATI™ Radeon™ HD 2400 Pro 128MB</td> <td>43R1961</td> </tr> <tr> <td>ATI Radeon HD 2400 XT 256MB</td> <td>43R1962</td> </tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>                  Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962
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ADD2 DVI-D Monitor Connection (HDCP)	43R1985																																												
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961																																												
ATI Radeon HD 2400 XT 256MB	43R1962																																												

See footnotes for important warranty information

US models announced August 19, 2008; previous models on June 24, 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Floor stand	Preload	Global Educ	Avail date
M57	6072-C2U	2x3	Pentium E2140	1.60	1MB	1GB	80GB <sup>2</sup>	DVD	GMA	eSATA	None	Stand	XP Pro		Oct 07
M57	6072-C3U	2x3	Pentium E2140	1.60	1MB	1GB	80GB	Combo	GMA	eSATA	None	Stand	XP Pro		Oct 07
M57	6072-ENU	2x3	Pentium E2160	1.80	1MB	1GB	160GB	DVD	GMA	eSATA	None	Stand	XP Pro	Gbl	Dec 07
M57	6072-C1U	2x3	Core 2 Duo E4400	2.00	2MB	1GB	80GB	DVD	GMA	eSATA	None	Stand	XP Pro		Oct 07
M57	6072-EPU	2x3	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	eSATA	None	Stand	XP Pro	Gbl	Dec 07
M57	6072-BJU	2x3	Pentium E2160	1.80	1MB	1GB	80GB	DVD	GMA	eSATA	None	Stand	Bus32	Gbl	Nov 07
M57	6072-BKU	2x3	Pentium E2160	1.80	1MB	1GB	80GB	Combo	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-BMU	2x3	Pentium E2160	1.80	1MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-ERU	2x3	Pentium E2160	1.80	1MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Stand	Bus32	Gbl	Dec 07
M57	6072-A4U	2x3	Core 2 Duo E4400	2.00	2MB	1GB	80GB	DVD	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-BNU	2x3	Core 2 Duo E4400	2.00	2MB	1GB	80GB	Combo	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-AJU	2x3	Core 2 Duo E4400	2.00	2MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-ATU	2x3	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-BVU	2x3	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	eSATA	None	Stand	Bus32	Gbl	Oct 07
M57	6072-A5U	2x3	Core 2 Duo E6550	2.33	4MB	1GB	80GB	Combo	GMA	eSATA	None	Stand	Bus32	Gbl	Oct 07
M57	6072-ASU	2x3	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Stand	Bus32		Oct 07
M57	6072-EQU	2x3	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Stand	Bus32	Gbl	Dec 07

Positioning	<i>Ultimate enterprise stability for large enterprise and mid-market</i>		<b>Small</b>		
Processor	<b>Intel® Pentium® Dual-Core Processor E2140</b> or <b>E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4400</b> or <b>E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket				
Implementation			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)		
Memory	<b>1GB std, 8GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available		Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 (5v)		
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• <i>Some</i>: system floor stand for vertical orientation</li> </ul>		
SATA disk	<b>80GB</b> or <b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support				
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)				
SATA Combo	<i>Some</i> : CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive				
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar				
eSATA port	One external SATA (eSATA) port				
EIDE controller	None				
Diskette drive	None				
Media reader	None				
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC <sup>®</sup> SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec				
Speaker	One internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN <sup>®</sup> , ASF2.0				
Intel AMT	None				
Modem	None				
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo				
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo				
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs				
<b>Preloaded operating system<sup>20</sup></b>					
- <i>Some</i> : Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional with Vista <sup>®</sup> COA	1GB PC2-5300 CL5 NP DDR2 UDIMM		73P4984		
- <i>Some</i> : Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM		73P4985		
◇ <i>Vista models</i> : Vista Basic logo	1GB PC2-6400 NP DDR2 UDIMM		41U2977		
	2GB PC2-6400 NP DDR2 UDIMM		41U2978		
	500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990		
	USB 2.0 Lenovo Multimedia Headset		40Y8518		
	USB 2.0 Ultra Secure Memory Key 8GB		45J5918		
	ThinkVision <sup>®</sup> L2440p Wide 24" Monitor		4420HB2		
	ADD2 DVI-D Monitor Connection (HDCP)		43R1985		
	ATI <sup>™</sup> Radeon <sup>™</sup> HD 2400 Pro 128MB		43R1961		
	ATI Radeon HD 2400 XT 256MB		43R1962		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>				
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)					
• Rescue and Recovery <sup>™</sup>					
• Client Security Solution <sup>™</sup>					
• ThinkVantage Productivity Center					
• Norton Internet Security <sup>™</sup>					
• Microsoft Office 2007 Trial (60-day)					
				<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>Other ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

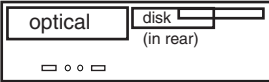
See footnotes for important warranty information

<sup>14</sup> US models announced December 4, 2007; previous models on September 18 or October 16, 2007

<sup>8</sup> US models withdrawn effective June or September 2008

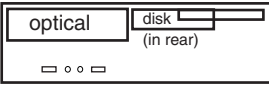


Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date	
☞	<b>M57</b>	6072-FMU	2x3	Core 2 Duo E4500	2.20	2MB	1GB	160GB <sup>2</sup>	DVD	GMA	eSATA	None	XP Pro	3-yr	None	Feb 08
	<b>M57</b>	6072-DNU	2x3	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	None	XP Pro	3-yr	None	Feb 08
☞	<b>M57</b>	6072-FJU	2x3	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	eSATA	None	Bus32	3-yr	None	Feb 08
☞	<b>M57</b>	6072-FKU	2x3	Core 2 Duo E4500	2.20	2MB	1GB	160GB	Combo	GMA	eSATA	None	Bus32	3-yr	None	Feb 08
☞	<b>M57</b>	6072-FLU	2x3	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD±RW	GMA	eSATA	None	Bus32	3-yr	None	Feb 08
	<b>M57</b>	6072-DMU	2x3	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	None	Bus32	3-yr	None	Feb 08

Positioning Processor	<i>Ultimate enterprise stability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										Small	
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Memory	<b>1GB std</b> , 8GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available										Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 (5v)	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<p style="text-align: center;"><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support											
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)											
SATA Combo	<i>Some</i> : CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive											
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA Drive (41N5620)											
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar											
eSATA port	One external SATA (eSATA) port											
EIDE controller	None											
Diskette drive	None											
Media reader	None											
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / <b>SMSC<sup>®</sup> SCH5617</b> Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN <sup>®</sup> , ASF2.0											
Intel AMT	None											
Modem	None											
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant										Supports ThinkVantage <sup>®</sup> technologies	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo										RoHS-compliant	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs											
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- <i>Some</i>: Microsoft® Windows® XP Professional with Vista<sup>®</sup> COA</li> <li>- <i>Some</i>: Microsoft Windows Vista Business Edition (32-bit)</li> <li>◆ <i>Vista models</i>: Vista Basic logo</li> </ul>											
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (combo, DVD) (XP)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel® WinDVD® (combo, DVD, DVD±RW)</li> </ul>											
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>											
											<p>↪ <b>3-year parts and labor</b></p> <p>↪ <b>International Warranty Service<sup>9</sup></b></p> <p>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></p> <p>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b></p> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> <p>↪ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></p> <p>↪ <b>Post warranty maintenance services available</b></p> <p>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></p>	

See footnotes for important warranty information  
US models announced January 22, 2008  
☞ US models withdrawn effective September 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date												
M57	6072-GUU	2x3	Pentium E2200	2.20	1MB	1GB	160GB <sup>2</sup>	DVD	GMA	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-GVU	2x3	Pentium E2200	2.20	1MB	2GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-GWU	2x3	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H2U	2x3	Core 2 Duo E7200	2.53	3MB	2GB	250GB	DVD	GMA	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H1U	2x3	Core 2 Duo E7300	2.66	3MB	2GB	250GB	DVD±RW	GMA	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H3U	2x3	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H4U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H5U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	250GB	DVD±RW	GMA	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H6U	2x3	Core 2 Quad Q9300	2.50	6MB	2GB	250GB	DVD±RW	GMA+ADD2	eSATA	No	XP Pro	3-yr	No	Aug 08												
M57	6072-H7U	2x3	Core 2 Quad Q9300	2.50	6MB	2GB	320GB	DVD±RW	<b>2400XT</b>	eSATA	No	XP Pro	3-yr	No	Aug 08												
Positioning	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E7200</b> or <b>E7300</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or <b>Intel Core 2 Duo Processor E8400</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB shared L2 cache or <b>Intel Core 2 Quad Processor Q9300</b> with <b>quad-core</b> (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache</p>									<p><b>Small</b></p> 																	
Processor	<p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>									<p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader/diskette)</p> <p>Slot 1: Low Profile, PCI Express x16 (35w max)*                  Slot 2: Low Profile, 32-bit PCI 2.3 (5v)</p> <p>* used in some models</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>																	
Implementation	<p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>									<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>																	
Memory	<p><b>1GB or 2GB std</b>, 8GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available  <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>									<p><b>Supports ThinkVantage® technologies</b></p>																	
Graphics	<p><i>Some:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector  <i>Some:</i> <b>ADD2 DVI-D Monitor Connection (HDCP)</b>, PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant  <i>Some:</i> <b>ATI™ Radeon™ HD 2400 XT</b>, PCI Express x16 adapter, 256MB, dual-head support, VGA and DVI-I connectors via dongle, S-Video out for TV-out, HDCP, DirectX® 10, ATI Avivo™, dual-link DVI, 35 watts</p>									<p><b>RoHS-compliant</b></p>																	
SATA disk	<p><b>160GB, 250GB, or 320GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>									<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																	
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support</p>																										
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>																										
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>																										
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors on planar</p>																										
eSATA port	<p>One external SATA (eSATA) port</p>																										
EIDE controller	<p>None</p>																										
Diskette drive	<p>None</p>																										
Media reader	<p>None</p>																										
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>																										
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>																										
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), eSATA, H7U: monitor (VGA DB-15, DVI-I), S-Video out;  <i>Others:</i> monitor (VGA DB-15, DVI-D in some models)</p>																										
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>																										
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>																										
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>																										
Speaker	<p>One internal speaker for business audio</p>																										
Ethernet	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0</p>																										
Intel AMT	<p>None</p>																										
Modem	<p>None</p>																										
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>																										
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>																										
Mouse	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>																										
Power supply	<p>280 watts with variable speed fan, autosensing, two diagnostic LEDs</p>																										
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® XP Professional with Vista® COA</p> <p>↪ Disk-to-Disk Recovery (in hidden protected area)</p>									<p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4984</td> </tr> <tr> <td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4985</td> </tr> <tr> <td>1GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2977</td> </tr> <tr> <td>2GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2978</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>ADD2 DVI-D Monitor Connection (HDCP)</td> <td>43R1985</td> </tr> <tr> <td>ATI™ Radeon™ HD 2400 Pro 128MB</td> <td>43R1961</td> </tr> <tr> <td>ATI Radeon HD 2400 XT 256MB</td> <td>43R1962</td> </tr> </table> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	USB 2.0 Lenovo Multimedia Headset	40Y8518	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984																										
2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985																										
1GB PC2-6400 NP DDR2 UDIMM	41U2977																										
2GB PC2-6400 NP DDR2 UDIMM	41U2978																										
USB 2.0 Lenovo Multimedia Headset	40Y8518																										
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																										
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961																										
ATI Radeon HD 2400 XT 256MB	43R1962																										
<b>Preloaded applications<sup>5</sup></b> (only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>																										

See footnotes for important warranty information  
 US models announced August 19, 2008



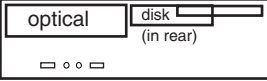


# ThinkCentre® M57 Small (9181) - ENERGY STAR® 4.0

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	L2 cache	Memory	SATA disk	SATA optical	Graphics	eSATA port	ENERGY STAR 4.0	Intel vPro	Floor stand	Vista preload	Vista logo	Global Educ	Avail date
M57	9181-A2U	2x3	Pentium E2180	2.00	1MB	2GB	160GB <sup>2</sup>	DVD±RW	GMA+ADD2	eSATA	ES40	None	Bus32	Prem	Gbl	Dec 07
M57	9181-A1U	2x3	Core 2 Duo E6550	2.33	4MB	1GB	160GB	Combo	GMA	eSATA	ES40	None	Stand	Bus32	Basic	Nov 07

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate enterprise stability for large enterprise and mid-market</i> <b>Intel® Pentium® Dual-Core Processor E2180</b> with <b>dual-core</b> , Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E6550</b> with <b>dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket		<b>Small</b>	
Implementation	Processor in FC-LGA6 package in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Memory	<b>1GB</b> or <b>2GB</b> std, 8GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> dual memory in two sockets; two sockets available <i>Non-italics:</i> standard memory in one socket; 3 sockets available		Slot 1: Low Profile, PCI Express x16 (35w max)* Slot 2: Low Profile, 32-bit PCI 2.3 (5v) * used in some models	
Graphics	<i>All:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector <i>Some:</i> <b>ADD2 DVI-D Monitor Connection (HDCP)</b> , PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• <i>Some:</i> system floor stand for vertical orientation</li> </ul>	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			<p align="center"><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant</p> <p align="center"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support			
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive			
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar			
eSATA port	One external SATA (eSATA) port			
EIDE controller	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / <b>SMSC® SCH5617</b> Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models), eSATA			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0			
Intel AMT	None			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs, 80% PSU			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>			
- Microsoft® Vista® Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984		
	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985		
	1GB PC2-6400 NP DDR2 UDIMM	41U2977		
	2GB PC2-6400 NP DDR2 UDIMM	41U2978		
	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015		
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990		
	USB 2.0 Lenovo Multimedia Headset	40Y8518		
	USB 2.0 Lenovo Webcam	40Y8519		
	USB 2.0 Essential Memory Key 32GB	45K1258		
	USB 2.0 Ultra Secure Memory Key 2GB	45J5916		
	USB 2.0 Ultra Secure Memory Key 4GB	45J5917		
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918		
	USB 2.0 Portable 160GB Hard Disk	43R1784		
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019		
	USB 2.0 Super Multi-Burner Drive	41N5565		
	ThinkVision® L1940p Wide 19" Monitor	4424HB6		
	ThinkVision L2240p Wide 22" Monitor	4422HB6		
	ThinkVision L2440p Wide 24" Monitor	4420HB2		
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067		
	Kensington Cable Lock from Lenovo	73P2582		
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985		
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961		
	ATI Radeon HD 2400 XT 256MB	43R1962		
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>			
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>			

See footnotes for important warranty information

US model announced December 4, 2007; previous model on September 18, 2007

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(APOL1-3) December 2007



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	9978-A1U	4x5	Core 2 Duo E7200	2.53	3MB	1GB	160GB <sup>2</sup>	DVD±RW	GMA	None	None	XP Pro	3-yr	None	Jun 08
M57	9978-A2U	4x5	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD±RW	GMA	None	None	XP Pro	3-yr	None	Jun 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i>  <b>Intel® Core™ 2 Duo Processor E7200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or <b>Intel Core 2 Duo Processor E8400</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket</p>										<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																																	
Implementation	<p>Processor in FC-LGA8 package in LGA775 socket</p>										<p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 5.25", 1.6" high, access, open                  Bay ③ 3.5", 1" high, access, open (reader/diskette)                  Bay ④ 3.5", 1" high, no access, std disk                  Bay ⑤ 3.5", 1" high, no access, opt disk</p>		<p>Slot 1: half-length, full-height, PCI Express x16 (75w max)                  Slot 2: half-length, full-height, PCI Express x1                  Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v)                  Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)</p>																																															
Memory	<p><b>1GB std</b>, 8GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; 3 sockets available</p>										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>		<p>Supports ThinkVantage® technologies</p>																																															
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>										<p>RoHS-compliant</p>		<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations)<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																															
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>										<p>Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		<p>Mouse Optical Wheel Mouse (USB connector), black, Lenovo logo</p>																																															
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support</p>										<p>Power supply 280 watts with variable speed fan, manual switch, two diagnostic LEDs</p>																																																	
SATA DVD±RW	<p>Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>										<p>Preloaded operating system<sup>20</sup></p> <ul style="list-style-type: none"> <li>- Microsoft® Windows® XP Professional with Vista® COA</li> <li>↔ Disk-to-Disk Recovery (in hidden protected area)</li> </ul>		<p>Accessories</p> <table border="0"> <tr><td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4984</td></tr> <tr><td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4985</td></tr> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr> <tr><td>ATI™ Radeon™ HD 2400 Pro 128MB</td><td>43R1961</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 2600 XT 512MB</td><td>43R1963</td></tr> <tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr> <tr><td>NVIDIA Quadro 256MB FX 370</td><td>43R1766</td></tr> <tr><td>NVIDIA Quadro 512MB FX 1700</td><td>43R1767</td></tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>                  Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 2600 XT 512MB	43R1963	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370	43R1766	NVIDIA Quadro 512MB FX 1700	43R1767
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NVIDIA Quadro 512MB FX 1700	43R1767																																																											
SATA cables	<p>Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar</p>										<p>Chipset <b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>																																																	
eSATA port	None																																																											
EIDE controller	None																																																											
Diskette drive	None																																																											
Media reader	None																																																											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																											
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																																											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																																											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																																											
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																																											
Speaker	One internal speaker for business audio																																																											
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0																																																											
Intel AMT	None																																																											
Modem	None																																																											
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																																											

See footnotes for important warranty information  
 US models announced June 24, 2008

# ThinkCentre® M57 Tower (6075)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	6075-BSU	4x5	Pentium E2140	1.60	1MB	1GB	80GB <sup>2</sup>	DVD	GMA	None	None	XP Pro	3-yr		Oct 07
M57	6075-BTU	4x5	Pentium E2140	1.60	1MB	1GB	80GB	Combo	GMA	None	None	XP Pro	3-yr		Oct 07
M57	6075-BRU	4x5	Core 2 Duo E4400	2.00	2MB	1GB	80GB	DVD	GMA	None	None	XP Pro	3-yr		Oct 07
M57	6075-BGU	4x5	Pentium E2160	1.80	1MB	1GB	80GB	DVD	GMA	None	None	Business32	3-yr	Gbl	Nov 07
M57	6075-BHU	4x5	Pentium E2160	1.80	1MB	1GB	80GB	Combo	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-BJU	4x5	Pentium E2160	1.80	1MB	1GB	320GB	DVD±RW	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-A4U	4x5	Core 2 Duo E4400	2.00	2MB	1GB	80GB	DVD	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-AEU	4x5	Core 2 Duo E4400	2.00	2MB	1GB	160GB	DVD±RW	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-AHU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-BQU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	None	None	Business32	3-yr	Gbl	Oct 07
M57	6075-AGU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	Combo	GMA	None	None	Business32	3-yr		Oct 07
M57	6075-A5U	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	Combo	GMA	None	None	Business32	3-yr	Gbl	Oct 07
M57	6075-AFU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD±RW	GMA	None	None	Business32	3-yr		Oct 07

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2140</b> or <b>E2160</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4400</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with <b>dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket</p>		<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation	<p><b>1GB std, 8GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; 3 sockets available</p>		<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Bay ⑤ 3.5", 1" high, no access, opt disk</p> <p>Slot 1: half-length, full-height, PCI Express x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCI Express x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v)</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)</p>	
Memory	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>			
Graphics	<p><b>80, 160, or 320GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support  <i>Some</i>: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)  <i>Some</i>: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive  <i>Some</i>: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)                  Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar</p>			
SATA disk	<p>None</p>			
SATA controller	<p>None</p>			
SATA DVD	<p>None</p>			
SATA Combo	<p>None</p>			
SATA DVD±RW	<p>None</p>			
SATA cables	<p>None</p>			
eSATA port	<p>None</p>			
EIDE controller	<p>None</p>			
Diskette drive	<p>None</p>			
Media reader	<p>None</p>			
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express<sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC<sup>®</sup> SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>	
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>			
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</p>			
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>			
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>			
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>			
Speaker	<p>One internal speaker for business audio</p>			
Ethernet	<p>Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN<sup>®</sup>, ASF2.0</p>			
Intel AMT	<p>None</p>			
Modem	<p>None</p>			
Security chip	<p>Winbond<sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>			
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>			
Mouse	<p>Optical Wheel Mouse (USB connector), black, Lenovo logo</p>			
Power supply	<p>280 watts with variable speed fan, manual switch, two diagnostic LEDs</p>			
Preloaded operating system <sup>20</sup>	<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>- <i>Some</i>: Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional</li> <li>- <i>Some</i>: Microsoft Windows Vista<sup>®</sup> Business Edition (32-bit)</li> <li>◇ <i>Vista models</i>: Vista Basic logo</li> </ul>		<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>ThinkVision<sup>®</sup> L2440p Wide 24" Monitor 4420HB2</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI<sup>™</sup> Radeon<sup>™</sup> HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> </ul>	
Preloaded applications <sup>5</sup> (all OSes; only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (combo, DVD, DVD±RW)</li> </ul>		<ul style="list-style-type: none"> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>	
			<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>⇨ <b>3-year parts and labor</b></li> <li>⇨ <b>International Warranty Service<sup>9</sup></b></li> <li>⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇨ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information

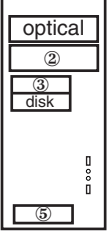
<sup>18</sup> US model announced October 16, 2007; previous models on September 18, 2007

<sup>19</sup> US models withdrawn effective June or September 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Vista logo	Global Educ	Avail date
M57	6075-E7U	4x5	Pentium E2160	1.80	1MB	1GB	160GB <sup>2</sup>	DVD	GMA	None	None	XP Pro		Gbl	Dec 07
M57	6075-E8U	4x5	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	None	None	XP Pro		Gbl	Dec 07
M57	6075-DNU	4x5	Core 2 Quad Q6600	2.40	8MB	2GB	160GB	DVD±RW	GMA	None	None	XP Pro			Dec 07
M57	6075-EAU	4x5	Pentium E2160	1.80	1MB	1GB	160GB	DVD±RW	GMA	None	None	Business32	Basic	Gbl	Dec 07
M57	6075-E9U	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD±RW	GMA	None	None	Business32	Basic	Gbl	Dec 07
M57	6075-DPU	4x5	Core 2 Quad Q6600	2.40	8MB	2GB	160GB	DVD±RW	GMA	None	None	Business32	Prem		Dec 07

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4500</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E6550</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache or <b>Intel Core 2 Quad Processor Q6600</b> with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 8MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket</p>	<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 																																	
Implementation	Processor in FC-LGA6 package in LGA775 socket	<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Bay ⑤ 3.5", 1" high, no access, opt disk</p>																																	
Memory	<p><b>1GB or 2GB std</b>, 8GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; 3 sockets available</p>	<p>Slot 1: half-length, full-height, PCI Express x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCI Express x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v)</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)</p>																																	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>																																	
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>	<p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support																																		
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)																																		
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																																		
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar																																		
eSATA port	None																																		
EIDE controller	None																																		
Diskette drive	None																																		
Media reader	None																																		
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>																																		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																		
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																		
Speaker	One internal speaker for business audio																																		
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0																																		
Intel AMT	None																																		
Modem	None																																		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																																		
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																																		
<b>Preloaded operating system<sup>20</sup></b>	<p>- Some: Microsoft® Windows® XP Professional with Vista® COA</p> <p>- Some: Microsoft Windows Vista Business Edition (32-bit)</p>																																		
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™</li> <li>• Diskeeper® Home</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> </ul>																																		
<b>Accessories</b>	<table border="0"> <tr><td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4984</td></tr> <tr><td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4985</td></tr> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>ThinkVision® L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr> <tr><td>ATI™ Radeon™ HD 2400 Pro 128MB</td><td>43R1961</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 2600 XT 512MB</td><td>43R1963</td></tr> <tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr> <tr><td>NVIDIA Quadro 256MB FX 370</td><td>43R1766</td></tr> <tr><td>NVIDIA Quadro 512MB FX 1700</td><td>43R1767</td></tr> </table> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Essential Memory Key 32GB	45K1258	ThinkVision® L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 2600 XT 512MB	43R1963	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370	43R1766	NVIDIA Quadro 512MB FX 1700	43R1767
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984																																		
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Kensington Cable Lock from Lenovo	73P2582																																		
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																																		
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961																																		
ATI Radeon HD 2400 XT 256MB	43R1962																																		
ATI Radeon HD 2600 XT 512MB	43R1963																																		
NVIDIA® Quadro® 256MB NVS 290	43R1765																																		
NVIDIA Quadro 256MB FX 370	43R1766																																		
NVIDIA Quadro 512MB FX 1700	43R1767																																		

See footnotes for important warranty information  
US models announced December 4, 2007

↔ US model withdrawn effective September 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
✓	<b>M57</b>	6075-F8U	4x5	Core 2 Duo E4500	2.20	2MB	1GB	160GB <sup>2</sup>	DVD	GMA	None	XP Pro	3-yr	None	Feb 08
	<b>M57</b>	6075-DMU	4x5	Core 2 Duo E8200	2.66	6MB	1GB	160GB	DVD±RW	GMA	None	XP Pro	3-yr	None	Feb 08
✓	<b>M57</b>	6075-F9U	4x5	Core 2 Duo E4500	2.20	2MB	1GB	160GB	DVD	GMA	None	Business32	3-yr	None	Feb 08
✓	<b>M57</b>	6075-F4U	4x5	Core 2 Duo E4500	2.20	2MB	1GB	160GB	Combo	GMA	None	Business32	3-yr	None	Feb 08
	<b>M57</b>	6075-DLU	4x5	Core 2 Duo E8200	2.66	6MB	1GB	160GB	DVD±RW	GMA	None	Business32	3-yr	None	Feb 08

Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i></p> <p><b>Intel® Core™ 2 Duo Processor E4500 with dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or</p> <p><b>Intel Core 2 Duo Processor E8200 with dual-core</b>, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>						<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																													
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket						<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Bay ⑤ 3.5", 1" high, no access, opt disk</p>																																													
Memory	<p><b>1GB std</b>, 8GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; 3 sockets available</p>						<p>Slot 1: half-length, full-height, PCI Express x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCI Express x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v)</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)</p>																																													
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>						<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>																																													
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>						<p>Supports ThinkVantage® technologies</p>																																													
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support</p>						<p>RoHS-compliant</p>																																													
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>						<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>⇨ <b>3-year parts and labor</b></li> <li>⇨ <b>International Warranty Service<sup>9</sup></b></li> <li>⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇨ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>⇨ <b>Post warranty maintenance services available</b></li> <li>⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																													
SATA Combo	<p><i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive</p>																																																			
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)</p>																																																			
SATA cables	<p>Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar</p>																																																			
eSATA port	None																																																			
EIDE controller	None																																																			
Diskette drive	None																																																			
Media reader	None																																																			
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>																																																			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																																			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																																			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																																			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																																			
Speaker	One internal speaker for business audio																																																			
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0																																																			
Intel AMT	None																																																			
Modem	None																																																			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																																			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																																																			
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																																																			
<b>Preloaded operating system<sup>20</sup></b>	<p><i>- Some:</i> Microsoft® Windows® XP Professional with Vista® COA</p> <p><i>- Some:</i> Microsoft Windows Vista Business Edition (32-bit)</p> <p>⇨ <i>Vista models:</i> Vista Basic logo</p>						<p><b>Accessories</b></p> <table border="0"> <tr><td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4984</td></tr> <tr><td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4985</td></tr> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr> <tr><td>ATI™ Radeon™ HD 2400 Pro 128MB</td><td>43R1961</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 2600 XT 512MB</td><td>43R1963</td></tr> <tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr> <tr><td>NVIDIA Quadro 256MB FX 370</td><td>43R1766</td></tr> <tr><td>NVIDIA Quadro 512MB FX 1700</td><td>43R1767</td></tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 2600 XT 512MB	43R1963	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370	43R1766	NVIDIA Quadro 512MB FX 1700	43R1767
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984																																																			
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NVIDIA® Quadro® 256MB NVS 290	43R1765																																																			
NVIDIA Quadro 256MB FX 370	43R1766																																																			
NVIDIA Quadro 512MB FX 1700	43R1767																																																			

See footnotes for important warranty information  
US models announced January 22, 2008

⇨ US models withdrawn effective September 2008

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
M57	6075-GAU	4x5	Pentium E2200	2.20	1MB	1GB	160GB <sup>2</sup>	DVD	GMA	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-GBU	4x5	Pentium E2200	2.20	1MB	2GB	160GB	DVD±RW	GMA+ADD2	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-GCU	4x5	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA+ADD2	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-GEU	4x5	Core 2 Duo E7200	2.53	3MB	2GB	160GB	DVD	GMA	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-GDU	4x5	Core 2 Duo E7300	2.66	3MB	2GB	250GB	DVD±RW	GMA	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-G9U	4x5	Core 2 Quad Q9300	2.50	6MB	2GB	320GB	DVD±RW	<b>2400XT</b>	None	None	XP Pro	3-yr	None	Aug 08
M57	6075-G5U	4x5	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD	GMA	None	None	Bus32	3-yr	None	Aug 08
M57	6075-G7U	4x5	Core 2 Duo E7200	2.53	3MB	1GB	160GB	DVD±RW	GMA+ADD2	None	None	Bus32	3-yr	None	Aug 08
M57	6075-G6U	4x5	Core 2 Duo E7200	2.53	3MB	2GB	160GB	DVD±RW	GMA	None	None	Bus32	3-yr	None	Aug 08
M57	6075-G8U	4x5	Core 2 Duo E7300	2.66	3MB	2GB	250GB	DVD±RW	GMA+ADD2	None	None	Bus32	3-yr	None	Aug 08
Positioning Processor	<p><i>Ultimate enterprise stability for large enterprise and mid-market</i>  <b>Intel® Pentium® Dual-Core Processor E2200</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E7200</b> or <b>E7300</b> with <b>dual-core</b>, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB shared L2 cache or <b>Intel Core 2 Quad Processor Q9300</b> with <b>quad-core</b> (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache                      Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>									<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>					
Implementation	<p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>									<p>Bay ① 5.25", 1.6" high, access, std optical                      Bay ② 5.25", 1.6" high, access, open                      Bay ③ 3.5", 1" high, access, open (reader/diskette)                      Bay ④ 3.5", 1" high, no access, std disk                      Bay ⑤ 3.5", 1" high, no access, opt disk</p>					
Memory	<p><b>1GB</b> or <b>2GB std</b>, 8GB max<sup>8</sup>, <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>									<p>Slot ①: half-length, full-height, PCI Express x16 (75w max)*                      Slot 2: half-length, full-height, PCI Express x1                      Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v)                      Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)                      * used in some models</p>					
Graphics	<p><i>Some:</i> <b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector  <i>Some:</i> <b>ADD2 DVI-D Monitor Connection (HDCP)</b>, PCI Express<sup>®</sup> adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant  <i>Some:</i> <b>ATI™ Radeon™ HD 2400 XT</b>, PCI Express x16 adapter, 256MB, dual-head support, VGA and DVI-I connectors via dongle, S-Video out for TV-out, HDCP, DirectX<sup>®</sup> 10, ATI Avivo™, dual-link DVI, 35 watts</p>									<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>					
SATA disk	<p><b>160GB, 250GB,</b> or <b>320GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>									<p>Supports ThinkVantage<sup>®</sup> technologies</p>					
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support</p>														
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>									<p>RoHS-compliant</p>					
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>														
SATA cables	<p>Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on panel</p>									<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus<sup>™</sup> part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>					
eSATA port	None											<p>Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>			
EIDE controller	None									<p>Mouse Optical Wheel Mouse (USB connector), black, Lenovo logo</p>					
Diskette drive	None									<p>Power supply 280 watts with variable speed fan, manual switch, two diagnostic LEDs</p>					
Media reader	None									<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- <i>Some:</i> Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional with Vista<sup>®</sup> COA</li> <li>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</li> <li>↪ <i>Vista models:</i> Vista Premium logo</li> </ul> <p><b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery<sup>™</sup></li> <li>• Norton Internet Security<sup>™</sup></li> <li>• Microsoft Office 2007 Trial (60-day)</li> </ul>					
Chipset	<p><b>Intel Q35 Express Chipset</b>; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC<sup>®</sup> SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)</p>									<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA<sup>®</sup> Quadro<sup>®</sup> 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									<p>Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>					
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), G9U: monitor (VGA DB-15, DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D in some models)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)									<p>Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec									<p>Speaker One internal speaker for business audio</p>					
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN <sup>®</sup> , ASF2.0									<p>Intel AMT None</p>					
Intel AMT	None														
Modem	None									<p>Security chip Winbond<sup>®</sup> WPCT200 SafeKeeper<sup>™</sup> Trusted Platform Module, TCG 1.2-compliant</p>					
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper <sup>™</sup> Trusted Platform Module, TCG 1.2-compliant														

See footnotes for important warranty information  
 US models announced August 19, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	ENERGY STAR 4.0	Intel vPro	Vista preload	Vista logo	Global Educ	Avail date
ES	M57	9174-A2U	4x5 Pentium E2180	2.00	1MB	2GB	160GB <sup>2</sup>	DVD±RW	GMA+ADD2	None	ES40	None	Bus32	Prem	Gbl	Dec 07
	M57	9174-A1U	4x5 Core 2 Duo E6550	2.33	4MB	1GB	160GB	Combo	GMA	None	ES40	None	Bus32	Basic		Oct 07

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Ultimate enterprise stability for large enterprise and mid-market Intel® Pentium® Dual-Core Processor E2180 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E6550 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket										Tower	
Implementation											<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Memory	1GB or 2GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express x16 (75w max) <sup>*</sup> Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)	
Graphics	All: Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector Some: ADD2 DVI-D Monitor Connection (HDCP), PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant										* used in some models	
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts											
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support											
SATA Combo	Some: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive											
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)											
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar											
eSATA port	None											
EIDE controller	None											
Diskette drive	None											
Media reader	None											
Chipset	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Intel 82566DM, PCIe x1, Wake on LAN®, ASF2.0											
Intel AMT	None											
Modem	None											
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo											
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs, 80% PSU											
Preloaded operating system <sup>20</sup>	- Microsoft® Windows® Vista® Business Edition (32-bit)											
Preloaded applications <sup>5</sup>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel® WinDVD® (combo, DVD±RW)</li> </ul>											
Accessories	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA® Quadro® 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>											
											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>	
											Supports ThinkVantage® technologies	
											EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant	
											<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	

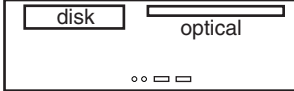
See footnotes for important warranty information

ES US model announced December 4, 2007; previous model on September 18, 2007



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	EIDE optical	Graphics	eSATA port	Intel vPro	Floor stand	Vista preload	Vista logo	Global Educ	Avail date
<b>M57p</b>	9071-ABU	1x2	Core 2 Duo E6550	2.33	4MB	1GB	80GB <sup>2</sup>	Combo	GMA	eSATA	vPro	Stand	Bus32	Basic		Oct 07
<b>M57p</b>	9071-A8U	1x2	Core 2 Duo E6550	2.33	4MB	1GB	80GB	Combo	GMA	eSATA	vPro		Bus32	Basic	Gbl	Oct 07
<b>M57p</b>	9071-AAU	1x2	Core 2 Duo E6550	2.33	4MB	1GB	160GB	Combo	GMA	eSATA	vPro	Stand	Bus32	Premium		Oct 07
<b>M57p</b>	9071-A2U	1x2	Core 2 Duo E6750	2.66	4MB	1GB	160GB	DVD±RW	GMA	eSATA	vPro	Stand	Bus32	Basic		Oct 07
<b>M57p</b>	9071-ANU	1x2	Core 2 Duo E6750	2.66	4MB	2GB	160GB	DVD±RW	GMA	eSATA	vPro	Stand	Bus32	Premium		Feb 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- These models have a 3-year limited warranty<sup>1</sup>

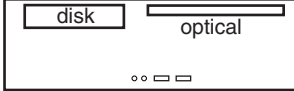
Positioning	<i>Ultimate enterprise stability and manageability for large enterprise</i>		<b>Ultra Small</b>	
Processor	<b>Intel® Core™ 2 Duo Processor E6550 or E6750</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket			
Implementation	Processor in FC-LGA6 package in LGA775 socket		Bay ① 3.5", 1" high, no access, std disk (desktop) Bay ② 5.25", *.5" high, access, std optical (notebook) * Optical bay is Ultrabay™ Enhanced 12.7mm high (uses select ThinkPad-based Ultrabay Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high] devices)	
Memory	<b>1GB or 2GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector		Slot 1: half-length (175mm), full-height, 32-bit PCI 2.3 (5v)	
SATA disk	<b>80GB or 160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO			
SATA controller	One SATA cable (1-drop to disk), one SATA connector on planar		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.9" W X 10.7" D X 3.5" H</li> <li>• 276mm W X 273mm D X 89mm H</li> <li>• 14.1 lb (6.4 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Bays 1 and 2 flip up (latched and pivoting)</li> <li>• Toolless PCI slot and riser card retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• <i>Some:</i> system floor stand for vertical orientation</li> </ul>	
SATA cables	One external SATA (eSATA) port			
eSATA port	<i>Some:</i> 24X/24X/24X/8X Max <sup>11</sup> CD-RW/DVD-ROM Combo Drive, Ultrabay Enhanced (12.7mm high)			
EIDE Combo	<i>Some:</i> Multi-Burner DL DVD±RW Drive, Ultrabay Enhanced (12.7mm high)			
EIDE DVD±RW	Enhanced IDE, ATA-133, via EIDE bridge Silicon Image™ SIL3811 from ICH9DO			
EIDE controller	One cable (one 1-drop Ultrabay Enhanced cable to optical), one EIDE connector (Ultrabay Enhanced) on systemboard			
EIDE cables	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q35 Express Chipset;</b> I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	225 watts with variable speed fan, autosensing, two diagnostic LEDs			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		Supports ThinkVantage® technologies  RoHS-compliant  <b>Limited Warranty<sup>1</sup></b> ⇨ 3-year parts and labor ⇨ International Warranty Service <sup>9</sup> ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Onsite service upgrade options (in eligible locations): <sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> ⇨ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a> ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day <sup>14</sup> toll-free support during the warranty period <sup>1</sup> via 800-426-7378	
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984			
<b>Preloaded applications<sup>5</sup></b>	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985			
• Rescue and Recovery™	1GB PC2-6400 NP DDR2 UDIMM 41U2977			
• Client Security Solution™	2GB PC2-6400 NP DDR2 UDIMM 41U2978			
• ThinkVantage Productivity Center	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015			
• ThinkVantage System Update	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
• System Migration Assistant	USB Portable Diskette Drive 05K9276			
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Lenovo Multimedia Headset 40Y8518			
• Diskeeper® Home	USB 2.0 Lenovo Webcam 40Y8519			
• PC-Doctor™ (diagnostics)	USB 2.0 Essential Memory Key 32GB 45K1258			
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 8GB 45J5918			
• Windows Live™ Toolbar	USB 2.0 Portable 160GB Hard Disk 43R1784			
• Windows Live Search	USB 2.0 Super Multi-Burner Drive 41N5565			
• Picasa from Google	ThinkVision® L1940p Wide 19" Monitor 4424HB6			
• Microsoft Office 2007 Trial (60-day)	ThinkVision L2240p Wide 22" Monitor 4422HB6			
• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)	ThinkVision L2440p Wide 24" Monitor 4420HB2			
• Corel® WinDVD® (combo, DVD±RW)	ThinkCentre Ultra Small Under Desk Mount 40Y8625			
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067			
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074			
	Kensington Cable Lock from Lenovo 73P2582			
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>			
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>			

See footnotes for important warranty information

<sup>14</sup> US model announced February 5, 2008; previous models on September 18, 2007

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	EIDE optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
<b>M57p</b>	9071-AGU	1x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB <sup>2</sup>	Combo	GMA	eSATA	vPro	XP Pro	3-yr	None	Feb 08
<b>M57p</b>	9071-AFU	1x2	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	vPro	Business <sup>32</sup>	3-yr	None	Feb 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate enterprise stability and manageability for large enterprise</i> <b>Intel® Core™ 2 Duo Processor E8200 with dual-core,</b> Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket		<b>Ultra Small</b>	
Implementation	<b>1GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2,</b> non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available		Bay ① 3.5", 1" high, no access, std disk (desktop) Bay ② 5.25", *.5 high", access, std optical (notebook) * Optical bay is Ultrabay™ Enhanced 12.7mm high (uses select ThinkPad-based Ultrabay Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high] devices)	
Memory	<b>Intel Graphics Media Accelerator 3100 (GMA 3100),</b> integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector		Slot 1: half-length (175mm), full-height, 32-bit PCI 2.3 (5v)	
Graphics	<b>160GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening mounts SATA controller Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO SATA cables One SATA cable (1-drop to disk), one SATA connector on planar eSATA port One external SATA (eSATA) port EIDE Combo 24X/24X/8X Max <sup>11</sup> CD-RW/DVD-ROM Combo Drive, Ultrabay Enhanced (12.7mm high)		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.9" W X 10.7" D X 3.5" H</li> <li>• 276mm W X 273mm D X 89mm H</li> <li>• 14.1 lb (6.4 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Bays 1 and 2 flip up (latched and pivoting)</li> <li>• Toolless PCI slot and riser card retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	Enhanced IDE, ATA-133, via EIDE bridge Silicon Image™ SIL3811 from ICH9DO			
SATA controller	One cable (one 1-drop Ultrabay Enhanced cable to optical), one EIDE connector (Ultrabay Enhanced) on systemboard			
SATA cables	None			
eSATA port	None			
EIDE Combo	None			
EIDE controller	None			
EIDE cables	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q35 Express Chipset;</b> I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)			<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	225 watts with variable speed fan, autosenesing, two diagnostic LEDs			Supports ThinkVantage® technologies
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA</li> <li>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</li> <li>◇ <i>Vista model:</i> Vista Basic logo</li> </ul>			RoHS-compliant
<b>Preloaded applications<sup>5</sup> (all OSes)</b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (combo) (XP)</li> <li>• Sonic RecordNow and Drive Letter Access (combo)</li> <li>• Corel® WinDVD® (combo)</li> </ul>		<b>Accessories</b> <ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Security Memory Key 4GB 41U5120</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L1700p 17" Monitor 9417HE2</li> <li>ThinkVision L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>ThinkCentre Ultra Small Under Desk Mount 40Y8625</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>USB Travel Keyboard with UltraNav™ 31P9490</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇒ <b>3-year parts and labor</b></li> <li>⇒ <b>International Warranty Service<sup>9</sup></b></li> <li>⇒ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇒ <b>Onsite service upgrade options (in eligible locations)<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇒ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇒ <b>Post warranty maintenance services available</b></li> <li>⇒ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>

See footnotes for important warranty information  
 US models announced January 22, 2008

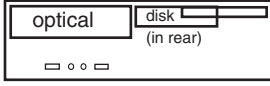


# ThinkCentre® M57p Small (9967) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
<b>M57p</b>	9967-A1U	2x3	Core 2 Duo E8400	3.00	6MB	1GB	160GB <sup>2</sup>	DVD	GMA	eSATA	vPro	XP Pro	3-yr	None	Jun 08
<b>M57p</b>	9967-A2U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	eSATA	vPro	XP Pro	3-yr	None	Jun 08
<b>M57p</b>	9967-A3U	2x3	Core 2 Quad Q9300	2.50	6MB	2GB	160GB	DVD±RW	GMA	eSATA	vPro	XP Pro	3-yr	None	Jun 08
<b>M57p</b>	9967-A4U	2x3	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	eSATA	vPro	Bus32	3-yr	None	Sep 08
<b>M57p</b>	9967-A5U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	eSATA	vPro	Bus32	3-yr	None	Sep 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate stability and manageability for small/medium businesses</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB shared L2 cache or <b>Intel Core 2 Quad Processor Q9300</b> with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache	<b>Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<b>1GB</b> or <b>2GB std</b> , 8GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)  Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 (5v)	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul> Supports ThinkVantage® technologies  RoHS-compliant  <b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>8</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	One external SATA (eSATA) port		
EIDE controller	None		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984		
- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985		
✦ <i>Vista models:</i> Vista Premium logo	1GB PC2-6400 NP DDR2 UDIMM 41U2977		
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	2GB PC2-6400 NP DDR2 UDIMM 41U2978		
• Rescue and Recovery™	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015		
• Client Security Solution™	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518		
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519		
• Norton Internet Security™	USB 2.0 Essential Memory Key 32GB 45K1258		
• Diskeeper® Home	USB 2.0 Ultra Secure Memory Key 8GB 45J5918		
• PC-Doctor™ (diagnostics)	USB 2.0 Portable Secure 320GB Hard Disk 43R2019		
• Microsoft Office 2007 Trial (60-day)	ThinkVision® L1940p Wide 19" Monitor 4424HB6		
• Multimedia Center for Think Offerings (DVD, DVD±RW) (XP)	ThinkVision L2240p Wide 22" Monitor 4422HB6		
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ThinkVision L2440p Wide 24" Monitor 4420HB2		
• Corel® WinDVD® (DVD, DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067		
• Corel WinDVD Creator (DVD±RW) (XP)	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074		
	Kensington Cable Lock from Lenovo 73P2582		
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985		
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961		
	ATI Radeon HD 2400 XT 256MB 43R1962		
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information

US models announced August 19, 2008; previous models on June 24, 2008

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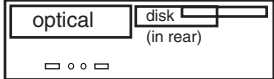
(APOL2-9) September 2008





Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Key-board	Preload	Global Educ	Avail date
M57p	6073-B3U	2x3	Core 2 Duo E8200	2.66	6MB	1GB	160GB <sup>2</sup>	Combo	GMA	eSATA	vPro	Pref	XP Pro		Feb 08
M57p	6073-D3U	2x3	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	eSATA	vPro	Pref	XP Pro		Sep 08
M57p	6073-D2U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA+ADD2	eSATA	vPro	Pref	XP Pro		Sep 08
M57p	6073-D4U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	250GB	DVD±RW	GMA	eSATA	vPro	Pref	XP Pro		Sep 08
M57p	6073-D6U	2x3	Core 2 Duo E8400	3.00	6MB	2GB	250GB	DVD±RW	GMA+ADD2	eSATA	vPro	Finger	XP Pro		Sep 08
M57p	6073-D5U	2x3	Core 2 Quad Q9300	2.50	6MB	2GB	250GB	DVD±RW	GMA+ADD2	eSATA	vPro	Pref	XP Pro		Sep 08
M57p	6073-B2U	2x3	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	vPro	Pref	Bus32		Feb 08
M57p	6073-BUJ	2x3	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	eSATA	vPro	Pref	Bus32	Educ	Apr 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Ultimate enterprise stability and manageability for large enterprise Intel® Core™ 2 Duo Processor E8200 or E8400 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB shared L2 cache or Intel Core 2 Quad Processor Q9300 with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket	Small	
Implementation		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Memory	1GB or 2GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	Slot 1: Low Profile, PCI Express x16 (35w max)* Slot 2: Low Profile, 32-bit PCI 2.3 (5v)	
Graphics	All: Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector Some: ADD2 DVI-D Monitor Connection (HDCP), PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant	* used in some models	
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support		
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA Combo	Some: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive		
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	One external SATA (eSATA) port		
EIDE controller	None		
Diskette drive	None		
Media reader	None		
Chipset	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15, DVI-D in some models), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	[Finger] Lenovo USB Fingerprint Keyboard (USB connector), black (one of following)		
Mouse	[Pref] Preferred Pro USB Keyboard (USB connector), 104-key, black		
Power supply	Optical Wheel Mouse (USB connector), black, Lenovo logo 280 watts with variable speed fan, autosensing, two diagnostic LEDs		

Bay ① 5.25", 1.6" high, access, std optical  
Bay ② 3.5", 1" high, no access, std disk  
Bay ③ 3.5", .5" high, access, open (reader/diskette)

Slot 1: Low Profile, PCI Express x16 (35w max)\*  
Slot 2: Low Profile, 32-bit PCI 2.3 (5v)

\* used in some models

- Business black color; metal case
- 12.5" W X 13.4" D X 3.9" H
- 317mm W X 341mm D X 99mm H
- 16.4 lb (7.4 kg) in maximum configuration
- Bays 1, 2, 3 flip up (latched and pivoting)
- Toolless cover flips up and tilts backward on rear hinges
- Toolless disk, optical drive removal
- Toolless adapter retention
- Toolless systemboard retention
- Steel chassis supports 100 lb (45kg) monitor on top
- System floor stand for vertical orientation

**Security**

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- Parallel port I/O control
- Individual USB port disablement
- eSATA port disablement

Supports ThinkVantage® technologies

RoHS-compliant

**Limited Warranty<sup>1</sup>**

- ↪ 3-year parts and labor
- ↪ International Warranty Service<sup>9</sup>
- ↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- ↪ Onsite service upgrade options (in eligible locations):<sup>7</sup>
  - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
  - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
  - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
  - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
  - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ↪ ThinkPlus services at lenovo.com/thinkplus/warranty
- ↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

Preloaded operating system <sup>20</sup>	Accessories	
- Some: Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
- Some: Microsoft Windows Vista Business Edition (32-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
↪ Vista models: Vista Basic logo	1GB PC2-6400 NP DDR2 UDIMM	41U2977
	2GB PC2-6400 NP DDR2 UDIMM	41U2978
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
	USB 2.0 Lenovo Multimedia Headset	40Y8518
	USB 2.0 Lenovo Webcam	40Y8519
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
	ThinkVision® L2440p Wide 24" Monitor	4420HB2
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
	Kensington Cable Lock from Lenovo	73P2582
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961
	ATI Radeon HD 2400 XT 256MB	43R1962
	Other accessories at lenovo.com/accessories	
<b>Preloaded applications<sup>5</sup> (all OSes; only some listed)</b>		
• Some: Education software (Vista)		
- VitalSource Library College Edition		
- Adobe® Instructor Resource Center		
- Adobe Digital School Collection		
- Photoshop Elements 6 (and CD)		
- Premier Elements 4 (and DVD)		
- Acrobat 8 Professional (and CD)		
- Contribute 4 (and CD)		
• Rescue and Recovery™		

See footnotes for important warranty information

<sup>14</sup> US models announced August 19, 2008; previous models on January 22 or March 25, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	eSATA port	ENERGY STAR 4.0	Intel vPro	Vista preload	Vista logo	Global Educ	Avail date
M57p	9196-A1U	2x3	Core 2 Duo E6550	2.33	4MB	1GB	160GB <sup>2</sup>	Combo	GMA	eSATA	ES40	vPro	Bus32	Basic	None	Nov 07

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model has a 3-year limited warranty<sup>1</sup>

Positioning Processor	Ultimate enterprise stability and manageability for large enterprise Intel® Core™ 2 Duo Processor E6550 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket										Small	
Implementation	1GB std, 8GB max <sup>a</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)	
Memory	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 (5v)	
Graphics	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors One external SATA (eSATA) port None None None None										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 13.4" D X 3.9" H</li> <li>• 317mm W X 341mm D X 99mm H</li> <li>• 16.4 lb (7.4 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> <li>• eSATA port disablement</li> </ul>	
SATA controller	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), parallel (25-pin), ethernet (RJ-45), monitor (VGA DB-15), eSATA											
SATA Combo	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
SATA cables	High Definition (HD) Audio, Analog Devices AD1882 codec											
eSATA port	One internal speaker for business audio											
EIDE controller	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0											
Diskette drive	Intel Active Management Technology (iAMT)											
Media reader	None											
Chipset	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											Supports ThinkVantage® technologies
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo										EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant	
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs, 80% PSU										<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ 3-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	
Preloaded operating system <sup>20</sup>	<b>Accessories</b>											
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM					73P4984						
	2GB PC2-5300 CL5 NP DDR2 UDIMM					73P4985						
	1GB PC2-6400 NP DDR2 UDIMM					41U2977						
	2GB PC2-6400 NP DDR2 UDIMM					41U2978						
	250GB SATA 3.0Gb/s Disk (7200 rpm)					41N3015						
	500GB SATA 3.0Gb/s Disk (7200 rpm)					43R1990						
	USB Portable Diskette Drive					05K9276						
	USB 2.0 Lenovo Multimedia Headset					40Y8518						
	USB 2.0 Lenovo Webcam					40Y8519						
	USB 2.0 Essential Memory Key 32GB					45K1258						
	USB 2.0 Ultra Secure Memory Key 4GB					45J5917						
	USB 2.0 Ultra Secure Memory Key 8GB					45J5918						
	USB 2.0 Portable 160GB Hard Disk					43R1784						
	USB 2.0 Portable Secure 320GB Hard Disk					43R2019						
	USB 2.0 Super Multi-Burner Drive					41N5565						
	Super Multi-Burner DL DVD±RW SATA Drive					41N5620						
	ThinkVision® L1700p 17" Monitor					9417HE2						
	ThinkVision L1940p Wide 19" Monitor					4424HB6						
	ThinkVision L2240p Wide 22" Monitor					4422HB6						
	ThinkVision L2440p Wide 24" Monitor					4420HB2						
	Wireless Kbd & Opt Wheel Mouse (via USB)					73P4067						
	Laser Tilt Wheel Mouse (USB, PS/2)					41U3074						
	Kensington Cable Lock from Lenovo					73P2582						
	ADD2 DVI-D Monitor Connection (HDCP)					43R1985						
	ATI™ Radeon™ HD 2400 Pro 128MB					43R1961						
	ATI Radeon HD 2400 XT 256MB					43R1962						
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>											
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>											

See footnotes for important warranty information  
US model announced September 18, 2007

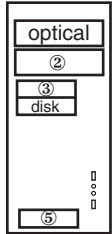


# ThinkCentre® M57p Tower (9979) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Vista logo	Global Educ	Avail date
<b>M57p</b>	9979-A1U	4x5	Core 2 Duo E8400	3.00	6MB	2GB	160GB <sup>2</sup>	DVD±RW	GMA	None	vPro	XP Pro		None	Jun 08
<b>M57p</b>	9979-A2U	4x5	Core 2 Quad Q9300	2.50	6MB	2GB	160GB	DVD±RW	GMA	None	vPro	XP Pro		None	Jun 08
<b>M57p</b>	9979-A3U	4x5	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA	None	vPro	Bus32	Premium	None	Sep 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate stability and manageability for small/medium businesses</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with <b>dual-core</b> , Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB shared L2 cache or <b>Intel Core 2 Quad Processor Q9300</b> with <b>quad-core</b> (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket	<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation		
Memory	<b>2GB std</b> , 8GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)
SATA disk SATA controller SATA DVD±RW SATA cables	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620) Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar	
eSATA port EIDE controller Diskette drive Media reader	None None None None	
Chipset	<b>Intel Q35 Express Chipset</b> ; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / <b>SMSC® SCH5617</b> Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector Rear audio ports Audio Speaker Ethernet	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) Audio, Analog Devices AD1882 codec One internal speaker for business audio Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0	
Intel AMT Modem Security chip	Intel Active Management Technology (iAMT) None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant	Supports ThinkVantage® technologies
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo Optical Wheel Mouse (USB connector), black, Lenovo logo 280 watts with variable speed fan, manual switch, two diagnostic LEDs	RoHS-compliant

<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)	<b>Accessories</b> 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision® L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 2600 XT 512MB 43R1963 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 43R1766 NVIDIA Quadro 512MB FX 1700 43R1767 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
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See footnotes for important warranty information

<sup>14</sup> US model announced August 19, 2008; previous models on June 24, 2008

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Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Vista logo	Global Educ	Avail date
M57p	9088-BEU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB <sup>2</sup>	Combo	GMA	None	vPro	XP Pro		Gbl	Dec 07
M57p	9088-BFU	4x5	Core 2 Duo E6750	2.66	4MB	1GB	160GB	Combo	GMA	None	vPro	XP Pro		Gbl	Dec 07
M57p	9088-B2U	4x5	Core 2 Quad Q6600	2.40	8MB	2GB	160GB	Combo	GMA	None	vPro	XP Pro			Dec 07
M57p	9088-ACU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	None	vPro	Bus32	Basic		Oct 07
M57p	9088-ARU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	DVD	GMA	None	vPro	Bus32	Basic	Gbl	Oct 07
M57p	9088-AEU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	80GB	Combo	GMA	None	vPro	Bus32	Basic	Gbl	Oct 07
M57p	9088-A5U	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD	GMA	None	vPro	Bus32	Premium		Oct 07
M57p	9088-AKU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB	Combo	GMA	None	vPro	Bus32	Basic		Oct 07
M57p	9088-BGU	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB	DVD±RW	GMA	None	vPro	Bus32	Basic	Gbl	Dec 07
M57p	9088-APU	4x5	Core 2 Duo E6750	2.66	4MB	1GB	160GB	Combo	GMA	None	vPro	Bus32	Basic		Oct 07
M57p	9088-A2U	4x5	Core 2 Duo E6750	2.66	4MB	1GB	160GB	DVD±RW	GMA	None	vPro	Bus32	Basic		Oct 07
M57p	9088-B3U	4x5	Core 2 Quad Q6600	2.40	8MB	2GB	160GB	Combo	GMA	None	vPro	Bus32	Premium		Dec 07

• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)

Positioning Processor	Ultimate enterprise stability and manageability for large enterprise Intel® Core™ 2 Duo Processor E6550 or E6750 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache or Intel Core 2 Quad Processor Q6600 with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 8MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket	Tower	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation	Processor in FC-LGA6 package in LGA775 socket			
Memory	1GB or 2GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available			
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter			
SATA disk	80GB or 160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support			
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)			
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive			
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar			
eSATA port	None			
EIDE controller	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express <sup>®</sup> x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC <sup>®</sup> SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN <sup>®</sup> , ASF2.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond <sup>®</sup> WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs			
Preloaded operating system <sup>20</sup>	<ul style="list-style-type: none"> <li>- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA</li> <li>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</li> </ul>	<b>Accessories</b> <ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>ThinkVision® L2440p Wide 24" Monitor 4420HB2</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA® Quadro® 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		
Preloaded applications <sup>5</sup> (all OSEs; only some listed)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• Norton Internet Security™</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel® WinDVD® (combo, DVD, DVD±RW)</li> </ul>			
			<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>	
			<ul style="list-style-type: none"> <li>• Supports ThinkVantage® technologies</li> </ul>	
			RoHS-compliant	
			<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	

See footnotes for important warranty information

US models announced December 4, 2007; previous models on September 18, 2007



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	Intel vPro	Preload	Global Educ	Avail date
M57p	9088-B1U	4x5	Core 2 Duo E8200	2.66	6MB	1GB	160GB <sup>2</sup>	Combo	GMA	None	vPro	XP Pro		Feb 08
M57p	9088-D6U	4x5	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD	GMA	None	vPro	XP Pro		Sep 08
M57p	9088-D4U	4x5	Core 2 Duo E8400	3.00	6MB	2GB	160GB	DVD±RW	GMA+ADD2	None	vPro	XP Pro		Sep 08
M57p	9088-D5U	4x5	Core 2 Duo E8400	3.00	6MB	2GB	250GB	DVD±RW	2400XT	None	vPro	XP Pro		Sep 08
M57p	9088-D3U	4x5	Core 2 Quad Q9300	2.50	6MB	2GB	160GB	DVD±RW	GMA+ADD2	None	vPro	XP Pro		Sep 08
M57p	9088-AWU	4x5	Core 2 Duo E8200	2.66	6MB	1GB	160GB	Combo	GMA	None	vPro	Business32		Feb 08
M57p	9088-BWU	4x5	Core 2 Duo E8400	3.00	6MB	1GB	160GB	DVD±RW	GMA	None	vPro	Business32	Educ	Apr 08

• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)  
 • These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Ultimate enterprise stability and manageability for large enterprise Intel® Core™ 2 Duo Processor E8200 or E8400 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, 1333MHz system bus, and 6MB shared L2 cache or Intel Core 2 Quad Processor Q9300 with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA8 package in LGA775 socket	<b>Tower</b>	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.0" D X 15.7" H</li> <li>175mm W X 432mm D X 400mm H</li> <li>22.5 lb (10.2 kg) in max configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Implementation		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express x16 (75w max)* Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)		
Memory	1GB or 2GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available			
Graphics	Some: Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector Some: ADD2 DVI-D Monitor Connection (HDCP), PCI Express® adapter in PCIe x16 slot, provides DVI-D connector to support second monitor, HDCP-compliant Some: ATI™ Radeon™ HD 2400 XT, PCI Express x16 adapter, 256MB, dual-head support, VGA and DVI-I connectors via dongle, S-Video out for TV-out, HDCP, DirectX® 10, ATI Avivo™, dual-link DVI, 35 watts			
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support			
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)			
SATA Combo	Some: CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive			
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar			
eSATA port	None			
EIDE controller	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), D5U: monitor (VGA DB-15, DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D in some models)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs			
<b>Preloaded operating system<sup>20</sup></b>	- Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ♦ Vista models: Vista Basic logo	<b>Accessories</b>	1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 Kensington Cable Lock from Lenovo 73P2582 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 2600 XT 512MB 43R1963 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 43R1766 NVIDIA Quadro 512MB FX 1700 43R1767 Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
<b>Preloaded applications<sup>5</sup></b> (all OSEs; only some listed)	• Rescue and Recovery™ • Norton Internet Security™ • Diskeeper® Home • Microsoft Office 2007 Trial (60-day)			

- Security**
- Security chip (see information on left)
  - One lock to secure both cover and entire system to fixed object:
    - Padlock loop (in rear for opt padlock)
    - Security slot (in rear for optional Kensington® Microsaver® cable)
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard, mouse, diskette
  - Serial port I/O control
  - Parallel port I/O control
  - Individual USB port disablement

Supports ThinkVantage® technologies

RoHS-compliant

- Limited Warranty<sup>1</sup>**
- ↔ 3-year parts and labor
  - ↔ International Warranty Service<sup>9</sup>
  - ↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
  - ↔ Onsite service upgrade options (in eligible locations)<sup>7</sup>
    - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
    - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
    - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
    - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
    - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
  - ↔ ThinkPlus services at [lenovo.com/thinkplus/warranty](http://lenovo.com/thinkplus/warranty)
  - ↔ Post warranty maintenance services available
  - ↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

See footnotes for important warranty information

US models announced August 19, 2008; previous models on January 22 or March 25, 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	eSATA port	ENERGY STAR 4.0	Intel vPro	Vista preload	Vista logo	Global Educ	Avail date
M57p	9194-A1U	4x5	Core 2 Duo E6550	2.33	4MB	1GB	160GB <sup>2</sup>	Combo	GMA	None	ES40	vPro	Bus32	Basic	None	Oct 07

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model has a 3-year limited warranty<sup>1</sup>

Positioning Processor	Ultimate enterprise stability and manageability for large enterprise										<b>Tower</b>		
Implementation	Intel® Core™ 2 Duo Processor E6550 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache Processor in FC-LGA6 package in LGA775 socket										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.0" D X 15.7" H</li> <li>• 175mm W X 432mm D X 400mm H</li> <li>• 22.5 lb (10.2 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>		
Memory	1GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk		
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in Q35, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)		
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH9DO, RAID 0/1 support												
SATA Combo	CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive												
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA/SATA connector on planar												
eSATA port	None										Supports ThinkVantage® technologies		
EIDE controller	None												
Diskette drive	None												
Media reader	None												
Chipset	Intel Q35 Express Chipset; I/O Controller Hub 9 Digital Office (ICH9DO) for SATA 3.0Gb/s with RAID 0/1 support, PCI Express® x1, ethernet (MAC), PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, parallel, diskette, hardware monitoring (temperature, voltage, fan speed)										Supports ThinkVantage® technologies		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										EPEAT™ Gold rating ENERGY STAR 4.0-compliant RoHS-compliant		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec												
Speaker	One internal speaker for business audio												
Ethernet	Gigabit ethernet on planar, Intel 82566DM (PHY layer; MAC in ICH9DO), PCIe x1, Intel AMT 3.0, Wake on LAN®, ASF2.0												
Intel AMT	Intel Active Management Technology (iAMT)										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ 3-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>		
Modem	None												
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo												
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ 3-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>		
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs, 80% PSU												
<b>Preloaded operating system<sup>20</sup></b>	Microsoft® Windows® Vista® Business Edition (32-bit)												
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (combo)</li> <li>• Corel® WinDVD® (combo)</li> </ul>												
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</li> <li>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</li> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>Super Multi-Burner DL DVD±RW SATA Drive 41N5620</li> <li>ThinkVision® L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 2600 XT 512MB 43R1963</li> <li>NVIDIA® Quadro™ 256MB NVS 290 43R1765</li> <li>NVIDIA Quadro 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> </ul> Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>												

See footnotes for important warranty information  
 US model announced September 18, 2007

**Partial list of accessories supported on ThinkCentre M57 and M57p**

**Memory**

M57/M57p Eco Ultra Small 6395/6397 use notebook memory:  
 1GB PC2-5300 DDR2 SODIMM (notebook) 43R1763 ann 03/04/08  
 2GB PC2-5300 DDR2 SODIMM (notebook) 43R1756 ann 03/04/08

M57/M57p Ultra Small 6071/9071,  
 M57/M57p Small 9970/6072/9181/9967/6073/9196, and  
 M57/M57p Tower 9978/6075/9174/9979/9088/9194 use desktop  
 memory:

512MB PC2-5300 CL5 NP DDR2 UDIMM 73P4983 ann 06/28/05  
 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 ann 06/28/05  
 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 ann 09/26/06  
 512MB PC2-6400 NP DDR2 UDIMM<sup>48</sup> 41U2976 ann 09/26/06  
 1GB PC2-6400 NP DDR2 UDIMM<sup>48</sup> 41U2977 ann 09/26/06  
 2GB PC2-6400 NP DDR2 UDIMM<sup>48</sup> 41U2978 ann 01/08/08

<sup>48</sup> When PC2-6400 is installed with systems that have PC2-5300 memory, PC2-6400 will operate at the PC2-5300 memory speed.

**Optical**

M57/M57p Ultra Small 6071/9071 use  
 Ultrabay™ Enhanced [12.7mm high] and Ultrabay Slim [9.5mm high]  
 EIDE optical drives:  
 CD-RW/DVD Combo Ultrabay Enhanced (cur)<sup>47</sup> 73P3275 ann 10/07/03  
 ThinkPad DVD Ultrabay Slim Burner (flat)<sup>47</sup> 41N5643 ann 05/31/07  
<sup>47</sup> Not supported by Lenovo

M57/M57p Eco Ultra Small 6395/6397,  
 M57/M57p Small 9970/6072/9181/9967/6073/9196, and  
 M57/M57p Tower 9978/6075/9174/9979/9088/9194  
 support Serial ATA optical drives:  
 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> 41N5618 ann 09/26/06  
 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

**Storage and removable storage**

All:  
 80GB SATA 3.0Gb/s Disk (7200 rpm) 09N4253 ann 05/19/03  
 160GB SATA 3.0Gb/s Disk (7200 rpm) 09N4254 ann 05/19/03  
 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 ann 01/24/06  
 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 ann 11/06/07

M57/M57p Eco Ultra Small 6395/6397 support:  
 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 ann 08/19/08

All:  
 USB Portable Diskette Drive 05K9276 ann 06/05/00  
 USB 2.0 Essential Memory Key 1GB 41U4940 ann 01/23/07  
 USB 2.0 Essential Memory Key 2GB 41U4944 ann 01/23/07  
 USB 2.0 Essential Memory Key 4GB 45J7904 ann 06/24/08  
 USB 2.0 Essential Memory Key 8GB 45J7905 ann 07/15/08  
 USB 2.0 Essential Memory Key 32GB 45K1258 ann 10/28/08  
 USB 2.0 Security Memory Key 1GB 41U5118 ann 07/17/07  
 USB 2.0 Security Memory Key 2GB 41U5119 ann 07/17/07  
 USB 2.0 Security Memory Key 4GB 41U5120 ann 07/17/07  
 USB 2.0 Ultra Secure Memory Key 1GB 45J5915 ann 08/26/08  
 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 ann 08/26/08  
 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 ann 08/26/08  
 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 ann 08/26/08  
 USB 2.0 Portable 160GB Hard Disk 43R1784 ann 09/23/08  
 USB 2.0 Portable Secure 160GB Hard Disk 43R2018 ann 11/18/08  
 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ann 11/18/08  
 USB 2.0 CD-RW/DVD-ROM Combo II Drive 40Y8637 ann 01/05/06  
 USB 2.0 Super Multi-Burner Drive 41N5565 ann 01/23/07

**Graphics**

M57/M57p Small 9970/6072/9181/9967/6073/9196 support Low Profile  
 35 watts max:  
 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ann 11/06/07  
 ATI™ Radeon™ HD 2400 Pro 128MB 43R1961 ann 11/06/07  
 ATI Radeon HD 2400 XT 256MB 43R1962 ann 11/06/07

M57/M57p Tower 9978/6075/9174/9979/9088/9194 support 75 watts  
 max:  
 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ann 11/06/07  
 ATI Radeon HD 2400 Pro 128MB 43R1961 ann 11/06/07  
 ATI Radeon HD 2400 XT 256MB 43R1962 ann 11/06/07  
 ATI Radeon HD 2600 XT 512MB 43R1963 ann 11/06/07  
 NVIDIA® Quadro® 256MB NVS 290 43R1765 ann 12/18/07  
 NVIDIA Quadro 256MB FX 370 43R1766 ann 12/18/07  
 NVIDIA Quadro 512MB FX 1700 43R1767 ann 12/18/07

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard 73P5220 ann 06/21/05  
 Preferred Pro Full Size PS/2 Keyboard 31P7415 ann 06/04/02  
 Enhanced Performance USB Keyboard 73P2620 ann 03/23/04  
 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 ann 12/07/04  
 USB Travel Keyboard with UltraNav™ 31P9490 ann 04/27/04  
 Lenovo USB Fingerprint Keyboard 73P4730 ann 02/22/05

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Optical Wheel Mouse (USB) 06P4069 ann 05/21/03  
 Optical ScrollPoint® Mouse (USB, PS/2) 31P7405 ann 08/27/02  
 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 ann 01/23/07  
 Lenovo Wireless Laser Mouse (blk, via USB) 45K1696 ann 11/25/08  
 Lenovo Wireless Laser Mouse (red, via USB) 51J0198 ann 11/25/08

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Multimedia**

USB 2.0 Lenovo Multimedia Headset 40Y8518 ann 06/27/06  
 USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06

**Security**

Kensington® Cable Lock from Lenovo 73P2582 ann 12/29/03  
 Kensington Twin Head Cable Lock 45K1620 ann 09/30/08  
 USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06

**Mounting Device**

M57/M57p Eco Ultra Small 6395/6397 and M57/M57p Ultra Small  
 6071/9071 support under desk mounting device:  
 ThinkCentre Ultra Small Under Desk Mount 40Y8625 ann 09/06/05

**Monitors**

ThinkVision® L174 17" Monitor 9227AE1 ann 04/15/08  
 ThinkVision L1700p 17" Monitor 9417HE2 ann 09/17/08  
 ThinkVision L1900p 19" Monitor 4431HE1 ann 11/11/08  
 ThinkVision L1940p Wide 19" Monitor 4424HB6 ann 09/17/08  
 ThinkVision L200p Wide 20.1" Monitor 4438HB6 ann 04/15/08  
 ThinkVision L2240p Wide 22" Monitor 4422HB6 ann 09/17/08  
 ThinkVision L2440p Wide 24" Monitor 4420HB2 ann 09/17/08  
 ThinkVision L2440x Wide 24" Monitor 4421HB2 ann 09/17/08

More information at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Monitor Accessories<sup>46</sup>**

M57/M57p Eco Ultra Small 6395/6397 support:  
 Lenovo Vertical PC and Monitor Stand 41R4359 ann 02/19/08

All:  
 ThinkVision USB Soundbar 40Y7616 ann 08/23/05  
 ThinkVision Soundbar (L1900p, 24" Wide) 45K1263 ann 09/16/08  
 Kensington Cable Lock from Lenovo 73P2582 ann 12/29/03  
 Kensington Twin Head Cable Lock 45K1620 ann 09/30/08  
 Radial Arm 19K4464 ann 05/05/00

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English 43R1528 ann 01/31/07  
 Microsoft Office 2007 Small Business, Engl 43R1534 ann 01/31/07  
 Microsoft Office 2007 Professional, English 43R1531 ann 01/31/07

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)



Lenovo ThinkCentre M58 Eco Ultra Small



Lenovo ThinkCentre M58 Eco Ultra Small with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre M58 Small



Lenovo ThinkCentre M58 Small with Lenovo ThinkVision monitor



Lenovo ThinkCentre M58 Tower



Lenovo ThinkCentre M58 Tower with dual Lenovo ThinkVision monitors



# ThinkCentre® M58 Eco Ultra Small (8820) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Global Preload Educ	Avail date
M58	8820-A3U	1x2	Celeron E1200	1.60	2	1GB	160GB <sup>2</sup> DVD	GMA	VGA, DP	None	ES40	No	XP Pro	No	Dec 08
M58	8820-A4U	1x2	Pentium E5200	2.50	2	1GB	160GB DVD±RW	GMA	VGA, DP	None	ES40	No	XP Pro	No	Dec 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i></p> <p><b>Intel® Celeron® Dual-Core Processor E1200</b> with dual-core, 800MHz system bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache</p> <p>Processor in FC-LGA6 package in LGA775 socket</p>		<p><b>Eco Ultra Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk</p> <p>Slot 1: Low Profile, 32-bit PCI 2.3</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.4" D X 3.1" H</li> <li>• 275mm W X 238mm D X 80mm H</li> <li>• 9.2 lb (4.2 kg) in maximum configuration</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
Implementation	<p>Processor in FC-LGA6 package in LGA775 socket</p>		
Memory	<p><b>1GB std, 4GB max<sup>8</sup>, PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i>: standard memory in one socket; one socket available</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - security slot and cover release button are combined into one latch for improved chassis security</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
Graphics	<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display</p>		
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1</p>		
SATA DVD	<p><i>Some</i>: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>		
SATA DVD±RW	<p><i>Some</i>: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>		
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar</p>		
eSATA port	<p>None</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)</p>		
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>		
Power supply	<p>External AC/DC adapter, 130 watts, autosensing, 87% PSU</p>		
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>		
- Microsoft® Windows® XP Professional with Vista® COA	<p>1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987</p>		
↕ Disk-to-Disk Recovery (in hidden protected area)	<p>2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988</p>		
↕ Vista Basic logo	<p>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</p>		
<b>Preloaded applications<sup>5</sup></b>	<p>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</p>		
• Rescue and Recovery™	<p>USB Portable Diskette Drive 05K9276</p>		
• Client Security Solution™	<p>USB 2.0 Lenovo Multimedia Headset 40Y8518</p>		
• ThinkVantage Productivity Center	<p>USB 2.0 Lenovo Webcam 40Y8519</p>		
• ThinkVantage System Update	<p>USB 2.0 Essential Memory Key 32GB 45K1258</p>		
• Norton Internet Security™ (90 days of virus definitions)	<p>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</p>		
• Diskeeper® Home	<p>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</p>		
• PC-Doctor™ (diagnostics)	<p>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</p>		
• Adobe® Reader	<p>USB 2.0 Portable 160GB Hard Disk 43R1784</p>		
• Windows Live™ Toolbar	<p>USB 2.0 Portable 320GB Hard Disk 43R2019</p>		
• Windows Live Search	<p>USB 2.0 Super Multi-Burner Drive 41N5565</p>		
• Picasa from Google	<p>ThinkVision® L2440x Wide 24" Monitor 4421HB2</p>		
• Microsoft Office 2007 Trial (60-day)	<p>DisplayPort to Single-link DVI-D Cable 45J7915</p>		
• Multimedia Center for Think Offerings (DVD, DVD±RW)	<p>ThinkCentre Ultra Small Under Desk Mount 40Y8625</p>		
• Sonic RecordNow and Drive Letter Access (DVD±RW)	<p>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</p>		
• Corel® WinDVD® (DVD, DVD±RW)	<p>Lenovo USB Fingerprint Keyboard 73P4730</p>		
• Corel WinDVD Creator (DVD±RW)	<p>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</p>		
	<p>Kensington Cable Lock from Lenovo 73P2582</p>		
	<p>Kensington Twin Head Cable Lock 45K1620</p>		
	<p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></p>		
	<p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		

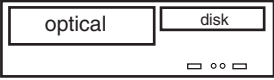
See footnotes for important warranty information  
US models announced November 11, 2008

# ThinkCentre® M58 Eco Ultra Small (7359)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global Educ	Avail date
M58	7359-A6U	1x2	Pentium E2200	2.20	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		ES40	No	Bus32	No	Dec 08
M58	7359-AGU	1x2	Pentium E2200	2.20	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Dec 08
M58	7359-ABU	1x2	Pentium E2220	2.40	2	1GB	160GB	DVD±RW	GMA	VGA, DP		ES40	No	Bus32	No	Dec 08
M58	7359-ADU	1x2	Pentium E5200	2.50	2	2GB	160GB	DVD	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Dec 08
M58	7359-AEU	1x2	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Dec 08
M58	7359-AFU	1x2	Core 2 Duo E7300	2.66	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Dec 08

- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2200 or E2220</b> with <b>dual-core</b>, 800MHz system bus, and 1MB L2 cache or <b>Intel Pentium Dual-Core Processor E5200</b> with <b>dual-core</b>, 800MHz system bus, and 2MB L2 cache or <b>Intel Core™ 2 Duo Processor E7300</b> with <b>dual-core</b>, 1066MHz system bus, and 3MB L2 cache</p> <p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Eco Ultra Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk</p> <p>Slot 1: Low Profile, 32-bit PCI 2.3</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.4" D X 3.1" H</li> <li>• 275mm W X 238mm D X 80mm H</li> <li>• 9.2 lb (4.2 kg) in maximum configuration</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>																																							
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - security slot and cover release button are combined into one latch for improved chassis security</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant</p>																																							
Memory	<p><b>1GB or 2GB std</b>, 4GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>																																									
Graphics	<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 253MB [<i>1GB system mem</i>], 765MB [<i>2GB system mem</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)</p>																																									
DP dongle	None																																									
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																																									
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)																																									
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																																									
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																																									
eSATA port	None																																									
Diskette drive	None																																									
Media reader	None																																									
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>																																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																									
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																																									
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																									
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																									
Speaker	One internal speaker for business audio																																									
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																																									
Intel AMT	None																																									
Modem	None																																									
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																									
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																									
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																																									
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® Vista® Business Edition (32-bit)</p> <p>◇ Vista Premium logo</p>																																									
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> </ul>																																									
<b>Accessories</b>	<table border="0"> <tr> <td>1GB PC3-8500 DDR3 SODIMM (notebook)</td> <td>43R1987</td> </tr> <tr> <td>2GB PC3-8500 DDR3 SODIMM (notebook)</td> <td>43R1988</td> </tr> <tr> <td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>43R1990</td> </tr> <tr> <td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>45J7918</td> </tr> <tr> <td>USB Portable Diskette Drive</td> <td>05K9276</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>USB 2.0 Lenovo Webcam</td> <td>40Y8519</td> </tr> <tr> <td>USB 2.0 Essential Memory Key 32GB</td> <td>45K1258</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 2GB</td> <td>45J5916</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 4GB</td> <td>45J5917</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 8GB</td> <td>45J5918</td> </tr> <tr> <td>USB 2.0 Portable Secure 320GB Hard Disk</td> <td>43R2019</td> </tr> <tr> <td>USB 2.0 Super Multi-Burner Drive</td> <td>41N5565</td> </tr> <tr> <td>ThinkVision® L2440x Wide 24" Monitor</td> <td>4421HB2</td> </tr> <tr> <td>ThinkCentre Ultra Small Under Desk Mount</td> <td>40Y8625</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>Lenovo USB Fingerprint Keyboard</td> <td>73P4730</td> </tr> <tr> <td>Laser Tilt Wheel Mouse (USB, PS/2)</td> <td>41U3074</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> <tr> <td>Kensington Twin Head Cable Lock</td> <td>45K1620</td> </tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L2440x Wide 24" Monitor	4421HB2	ThinkCentre Ultra Small Under Desk Mount	40Y8625	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Lenovo USB Fingerprint Keyboard	73P4730	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	Kensington Twin Head Cable Lock	45K1620
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Laser Tilt Wheel Mouse (USB, PS/2)	41U3074																																									
Kensington Cable Lock from Lenovo	73P2582																																									
Kensington Twin Head Cable Lock	45K1620																																									
<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>⇨ <b>3-year parts and labor</b></li> <li>⇨ <b>International Warranty Service<sup>9</sup></b></li> <li>⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>⇨ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>⇨ <b>Post warranty maintenance services available</b></li> <li>⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																										

See footnotes for important warranty information  
US models announced November 11, 2008

# ThinkCentre® M58 Small (8910) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58	8910-A8U	2x3	Pentium E5200	2.50	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP	None	None	XP Pro	None	Nov 08
M58	8910-A9U	2x3	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD±RW	GMA	VGA, DP	None	None	XP Pro	None	Nov 08
M58	8910-ABU	2x3	Core 2 Quad Q8200	2.33	4	2GB	250GB	DVD±RW	GMA	VGA, DP	None	None	XP Pro	None	Nov 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

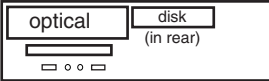
Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i></p> <p><b>Intel® Pentium® Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache or <b>Intel Core™ 2 Duo Processor E7300</b> with dual-core, 1066MHz system bus, and 3MB L2 cache or <b>Intel Core 2 Quad Processor Q8200</b> with quad-core, 1333MHz system bus, and 4MB L2 cache</p> <p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Small</b></p> 
Implementation	<p>Slot 1: Low Profile, PCI Express 2.0 x16</p> <p>Slot 2: Low Profile, 32-bit PCI 2.3</p>		<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 3.5", 1" high, no access, std disk</p> <p>Bay ③ 3.5", .5" high, access, open (reader)</p>
Memory	<p><b>1GB</b> or <b>2GB</b> std, 8GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in two sockets; two sockets available;</p> <p><i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>		
Graphics	<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 512MB [<i>1GB system mem</i>], 1GB [<i>2GB system mem</i>]), one analog VGA DB-15 conn, one DisplayPort™ conn (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display</p>		<p>• Business black color; metal case</p> <p>• 12.5" W X 14.0" D X 3.9" H</p> <p>• 317mm W X 355mm D X 99mm H</p> <p>• 16.5 lb (7.5 kg) in maximum configuration</p> <p>• Toolless cover flips up and tilts backward on rear hinges</p> <p>• Toolless disk, optical drive removal</p> <p>• Toolless adapter retention</p> <p>• Toolless systemboard retention</p> <p>• System floor stand for vertical orientation</p>
SATA disk	<p><b>160GB</b> or <b>250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>		
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul>
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>		
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>		
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors on planar</p>		
eSATA port	<p>One external SATA (eSATA) port</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA</p>		
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		<p>Supports ThinkVantage® technologies</p>
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>		
Power supply	<p>280 watts with variable speed fan, autosensing, two diagnostic LEDs</p>		
<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Microsoft® Windows® XP Professional with Vista® COA</li> <li>◇ Disk-to-Disk Recovery (in hidden protected area)</li> <li>◇ Vista Basic logo</li> </ul> <p><b>Preloaded applications<sup>5</sup></b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD, DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>			<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Security Memory Key 2GB 41U5119</li> <li>USB 2.0 Security Memory Key 4GB 41U5120</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>DisplayPort to Single-link DVI-D Cable 45J7915</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Lenovo USB Fingerprint Keyboard 73P4730</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>
<p><b>GREENGUARD® certified</b></p> <p>RoHS-compliant</p>			<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>

See footnotes for important warranty information  
US models announced October 21, 2008



Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Vista preload	Global Educ	Avail date
M58	7360-AJU	2x3	Pentium E2200	2.20	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		No	Bus32	No	Nov 08
M58	7360-ADU	2x3	Pentium E2220	2.40	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	No	Bus32	No	Nov 08
M58	7360-AKU	2x3	Pentium E5200	2.50	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	No	Bus32	No	Nov 08
M58	7360-ALU	2x3	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD	GMA	VGA, DP		No	Bus32	No	Nov 08
M58	7360-APU	2x3	Core 2 Duo E7300	2.66	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	No	Bus32	No	Nov 08
M58	7360-AQU	2x3	Core 2 Duo E7300	2.66	2	2GB	250GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D	No	Bus32	No	Nov 08
M58	7360-ARU	2x3	Core 2 Quad Q8200	2.33	4	2GB	250GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D	No	Bus32	No	Nov 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i></p> <p><b>Intel® Pentium® Dual-Core Processor E2200</b> or <b>E2220</b> with dual-core, 800MHz system bus, and 1MB L2 cache or <b>Intel Pentium Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache or <b>Intel Core™ 2 Duo Processor E7300</b> with dual-core, 1066MHz system bus, and 3MB L2 cache or <b>Intel Core 2 Quad Processor Q8200</b> with quad-core, 1333MHz system bus, and 4MB L2 cache</p> <p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader)</p> <p>Slot 1: Low Profile, PCI Express 2.0 x16*                  Slot 2: Low Profile, 32-bit PCI 2.3</p> <p>* used in some models</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
Memory	<p><b>1GB</b> or <b>2GB</b> std, 8GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>GREENGUARD® certified RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
Implementation			
Graphics	<p><i>Some:</i> <b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display</p> <p><i>Some:</i> <b>ATI™ Radeon™ HD 3470</b>, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts</p>		
DP dongle	<p><i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)</p>		
SATA disk	<p><b>160GB</b> or <b>250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support</p>		
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>		
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>		
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors on planar</p>		
eSATA port	<p>One external SATA (eSATA) port</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA</p>		
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>		
Power supply	<p>280 watts with variable speed fan, autosensing, two diagnostic LEDs</p>		
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>ATI Radeon HD 3470 256MB (DP, VGA) 45K1636</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		
- Microsoft® Windows® Vista® Business Edition (32-bit)			
↪ Vista Premium logo			
<b>Preloaded applications<sup>5</sup> (only some listed)</b>			
• Rescue and Recovery™			
• Client Security Solution™			
• ThinkVantage Productivity Center			
• ThinkVantage System Update			
• ThinkVantage Power Manager			
• Norton Internet Security™			
• Diskeeper® Home			
• PC-Doctor™ (diagnostics)			
• Adobe® Reader			
• Picasa from Google			
• Microsoft Office 2007 Trial (60-day)			
• Sonic RecordNow and Drive Letter Access (DVD±RW)			
• Corel® WinDVD® (DVD, DVD±RW)			

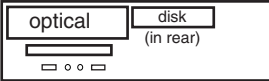
See footnotes for important warranty information  
 US models announced October 21, 2008

# ThinkCentre® M58 Small (6258) - ENERGY STAR® 4.0

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global Educ	Avail date
M58	6258-A7U	2x3	Celeron E1200	1.60	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		ES40	No	Bus32	No	Nov 08
M58	6258-A8U	2x3	Pentium E2200	2.20	2	1GB	160GB	DVD	GMA	VGA, DP		ES40	No	Bus32	No	Nov 08
M58	6258-A9U	2x3	Pentium E5200	2.50	2	1GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Nov 08
M58	6258-ABU	2x3	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD	GMA	VGA, DP		ES40	No	Bus32	No	Nov 08
M58	6258-ACU	2x3	Core 2 Duo E7300	2.66	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Nov 08
M58	6258-ADU	2x3	Core 2 Duo E7300	2.66	2	2GB	250GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Nov 08
M58	6258-AEU	2x3	Core 2 Quad Q8200	2.33	4	2GB	250GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	No	Bus32	No	Nov 08

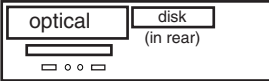
• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i></p> <p><b>Intel® Celeron® Dual-Core Processor E1200</b> with dual-core, 800MHz system bus, and 512KB L2 cache or  <b>Intel Pentium® Dual-Core Processor E2200</b> with dual-core, 800MHz system bus, and 1MB L2 cache or  <b>Intel Pentium Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache or  <b>Intel Core™ 2 Duo Processor E7300</b> with dual-core, 1066MHz system bus, and 3MB L2 cache or  <b>Intel Core 2 Quad Processor Q8200</b> with quad-core, 1333MHz system bus, and 4MB L2 cache</p> <p>Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>		<p><b>Small</b></p>  <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, no access, std disk                  Bay ③ 3.5", .5" high, access, open (reader)</p> <p>Slot 1: Low Profile, PCI Express 2.0 x16*                  Slot 2: Low Profile, 32-bit PCI 2.3</p> <p>* used in some models</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
Memory	<p><b>1GB</b> or <b>2GB std</b>, 8GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul>
Graphics	<p><i>Some:</i> <b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display</p> <p><i>Some:</i> <b>ATI™ Radeon™ HD 3470</b>, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts</p>		
DP dongle	<p><i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)</p>		<p>Supports ThinkVantage® technologies</p> <p>Climate Savers®-compliant                  EPEAT™ Gold rating                  ENERGY STAR 4.0-compliant                  GREENGUARD® certified                  RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA disk	<p><b>160GB</b> or <b>250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support</p>		
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>		
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>		
SATA cables	<p>Two SATA cables (each 1-drop to device), two SATA connectors on planar</p>		
eSATA port	<p>One external SATA (eSATA) port</p>		
Diskette drive	<p>None</p>		
Media reader	<p>None</p>		
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>		
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		
Rear ports	<p>Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA</p>		
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>		
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>		
Audio	<p>High Definition (HD) Audio, Analog Devices AD1882 codec</p>		
Speaker	<p>One internal speaker for business audio</p>		
Ethernet	<p>Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0</p>		
Intel AMT	<p>None</p>		
Modem	<p>None</p>		
Security chip	<p>Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>		
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>		
Power supply	<p>280 watts with variable speed fan, autosensing, 85% PSU</p>		
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>		
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 UDIMM	45J5434	
↕ Vista Premium logo	2GB PC3-8500 DDR3 UDIMM	45J5435	
	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	
	USB 2.0 Lenovo Multimedia Headset	40Y8518	
	USB 2.0 Lenovo Webcam	40Y8519	
	USB 2.0 Essential Memory Key 32GB	45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
	USB 2.0 Super Multi-Burner Drive	41N5565	
	ThinkVision® L2440x Wide 24" Monitor	4421HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information  
 US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
M58	7638-A1U	2x3	Core 2 Duo E7300	2.66	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP	None	None	Bus32	G P	Jan 09

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	Ultimate stability for small and medium businesses <b>Intel® Core™ 2 Duo Processor E7300 with dual-core</b> , 1066MHz system bus, and 3MB L2 cache Processor in FC-LGA8 package in LGA775 socket										Small	
Implementation	Processor in FC-LGA8 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical	
Memory	<b>1GB std</b> , 8GB max <sup>6</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available										Bay ② 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 253MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display										Bay ③ 3.5", .5" high, access, open (reader)	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Slot 1: Low Profile, PCI Express 2.0 x16	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										Slot 2: Low Profile, 32-bit PCI 2.3	
SATA DVD	DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)										• Business black color; metal case	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors										• 12.5" W X 14.0" D X 3.9" H	
eSATA port	One external SATA (eSATA) port										• 317mm W X 355mm D X 99mm H	
Diskette drive	None										• 16.5 lb (7.5 kg) in maximum configuration	
Media reader	None										• Toolless cover flips up and tilts backward on rear hinges	
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O										• Toolless disk, optical drive removal	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										• Toolless adapter retention	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA										• Toolless systemboard retention	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)										• System floor stand for vertical orientation	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											<b>Security</b>
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec											• Security chip (see information on left)
Speaker	One internal speaker for business audio											• Security slot (in rear for attachment of optional Kensington® Microsaver® cable)
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0											- optional cable also locks the cover by deactivating the cover release buttons
Intel AMT	None											• Power-on password
Modem	None											• Administrator password
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant											• Hard disk password (user and master)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											• Boot sequence control
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo											• Boot without diskette, keyboard
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs											• Serial port I/O control
												• Individual USB port disablement
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>											
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 UDIMM 45J5434											
◇ Vista Premium logo	2GB PC3-8500 DDR3 UDIMM 45J5435											
<b>Preloaded applications<sup>5</sup></b>	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990											
• Rescue and Recovery™	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918											
• Client Security Solution™	USB Portable Diskette Drive 05K9276											
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518											
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519											
• ThinkVantage Power Manager	USB 2.0 Essential Memory Key 32GB 45K1258											
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Security Memory Key 2GB 41U5119											
• Diskeeper® Home	USB 2.0 Security Memory Key 4GB 41U5120											
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916											
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 4GB 45J5917											
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 8GB 45J5918											
• Windows Live Search	USB 2.0 Portable 160GB Hard Disk 43R1784											
• Picasa from Google	USB 2.0 Portable Secure 320GB Hard Disk 43R2019											
• Microsoft Office 2007 Trial (60-day)	USB 2.0 Super Multi-Burner Drive 41N5565											
• Corel® WinDVD® (DVD)	ThinkVision® L2440x Wide 24" Monitor 4421HB2											
	DisplayPort to Single-link DVI-D Cable 45J7915											
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067											
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074											
	Kensington Cable Lock from Lenovo 73P2582											
	Kensington Twin Head Cable Lock 45K1620											
	ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636											
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>											
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>											
											Supports ThinkVantage® technologies	
											GREENGUARD® certified	
											RoHS-compliant	
											<b>Limited Warranty<sup>1</sup></b>	
											↪ 3-year parts and labor	
											↪ International Warranty Service <sup>9</sup>	
											↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)	
											↪ Onsite service upgrade options (in eligible locations): <sup>7</sup>	
											• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)	
											• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)	
											• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)	
											↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>	
											↪ Post warranty maintenance services available	
											↪ 24 hour x 7 day <sup>14</sup> toll-free support during the warranty period <sup>1</sup> via 800-426-7378	

See footnotes for important warranty information  
US model announced December 9, 2008

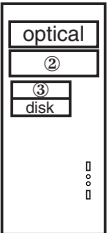


# ThinkCentre® M58 Tower (9960) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>3</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
<b>M58</b>	9960-A8U	4x4	Pentium E5200	2.50	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP	None	None	XP Pro	None	Nov 08
<b>M58</b>	9960-A9U	4x4	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD±RW	GMA	VGA, DP	None	None	XP Pro	None	Nov 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Ultimate stability for small and medium businesses</i>  <b>Intel® Pentium® Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache or  <b>Intel Core™ 2 Duo Processor E7300</b> with dual-core, 1066MHz system bus, and 3MB L2 cache</p>										<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										
Memory	<p><b>1GB</b>, 8GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i>: standard memory in one socket; 3 sockets available</p>										<p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 5.25", 1.6" high, access, open                  Bay ③ 3.5", 1" high, access, open (reader/diskette)                  Bay ④ 3.5", 1" high, no access, std disk</p> <p>Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)                  Slot 2: half-length, full-height, PCIe x1                  Slot 3: half-length, full-height, 32-bit PCI 2.3                  Slot 4: half-length, full-height, 32-bit PCI 2.3</p>
Graphics	<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display</p>										
SATA disk	<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>										<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										
SATA DVD	<p><i>Some</i>: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>										<p>Supports ThinkVantage® technologies</p>
SATA DVD±RW	<p><i>Some</i>: Super Multi-Burner DL DVD±RW SATA Drive (41N5620)</p>										
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar										<p>GREENGUARD® certified RoHS-compliant</p>
eSATA port	None										
Diskette drive	None										<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
Media reader	None										
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec										
Speaker	One internal speaker for business audio										
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0										
Intel AMT	None										
Modem	None										
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo										
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo										
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs										
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® XP Professional with Vista® COA</p> <p>↔ Disk-to-Disk Recovery (in hidden protected area)</p> <p>↔ Vista Basic logo</p>										
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD, DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>										
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>Blu-ray Burner / HD-DVD Player SATA Drive 43R1958</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>DisplayPort to Single-link DVI-D Cable 45J7915</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Lenovo USB Fingerprint Keyboard 73P4730</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636</li> <li>NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635</li> <li>NVIDIA Quadro® 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>										

See footnotes for important warranty information  
US models announced October 21, 2008

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(MLAN1-11) November 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Chassis intr switch	Intel vPro	Vista preload	Global Educ	Avail date	
M58	7373-AMU	4x4	Celeron E1400	2.00	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP			No	Bus32	No	Nov 08	
M58	7373-ACU	4x4	Pentium E2200	2.20	2	1GB	160GB	DVD	GMA	VGA, DP		Switch	No	Bus32	No	Nov 08	
M58	7373-AGU	4x4	Pentium E2220	2.40	2	1GB	160GB	DVD±RW	GMA	VGA, DP			No	Bus32	No	Nov 08	
M58	7373-ANU	4x4	Pentium E5200	2.50	2	2GB	160GB	DVD±RW	GMA	VGA, DP			No	Bus32	No	Nov 08	
M58	7373-ABU	4x4	Core 2 Duo E7300	2.66	2	1GB	160GB	DVD	GMA	VGA, DP			No	Bus32	No	Nov 08	
M58	7373-APU	4x4	Core 2 Duo E7300	2.66	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D		No	Bus32	No	Nov 08	
<p>• <b>These models have a 3-year limited warranty<sup>1</sup></b></p>																	
Positioning Processor		<p><i>Ultimate stability for small and medium businesses</i>  <b>Intel® Celeron® Dual-Core Processor E1400</b> with dual-core, 800MHz system bus, and 512KB L2 cache or  <b>Intel Pentium® Dual-Core Processor E2200</b> or <b>E2220</b> with dual-core, 800MHz system bus, and 1MB L2 cache or  <b>Intel Pentium Dual-Core Processor E5200</b> with dual-core, 800MHz system bus, and 2MB L2 cache or  <b>Intel Core™ 2 Duo Processor E7300</b> with dual-core, 1066MHz system bus, and 3MB L2 cache                      Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket</p>										<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>					
Implementation												<p>Bay ① 5.25", 1.6" high, access, std optical                      Bay ② 5.25", 1.6" high, access, open                      Bay ③ 3.5", 1" high, access, open (reader/diskette)                      Bay ④ 3.5", 1" high, no access, std disk</p>					
Memory		<p><b>1GB</b> or <b>2GB std</b>, 8GB max<sup>8</sup>, <b>PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; 3 sockets available</p>										<p>Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)                      Slot 2: half-length, full-height, PCIe x1                      Slot 3: half-length, full-height, 32-bit PCI 2.3                      Slot 4: half-length, full-height, 32-bit PCI 2.3</p>					
Graphics		<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display  <i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)</p>															
DP dongle																	
SATA disk		<p><b>160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>															
SATA controller		<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support</p>															
SATA DVD		<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>															
SATA DVD±RW		<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>															
SATA cables		<p>Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar</p>															
eSATA port		None															
Diskette drive		None															
Media reader		None															
Chipset		<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>															
Front ports		Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports		Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)															
Internal connector		Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)															
Rear audio ports		Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Audio		High Definition (HD) Audio, Analog Devices AD1882 codec															
Speaker		One internal speaker for business audio															
Ethernet		Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0															
Intel AMT		None															
Modem		None															
Security chip		Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant															
Keyboard		Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo															
Mouse		Optical Wheel Mouse (USB connector), black, Lenovo logo															
Power supply		280 watts with variable speed fan, manual switch, two diagnostic LEDs															
<b>Preloaded operating system<sup>20</sup></b>		<p>- Microsoft® Windows® Vista® Business Edition (32-bit)                      ↕ Vista Premium logo</p>															
<b>Preloaded applications<sup>5</sup></b>		<p>• Rescue and Recovery™                      • Client Security Solution™                      • ThinkVantage Productivity Center                      • ThinkVantage System Update                      • ThinkVantage Power Manager                      • Norton Internet Security™ (90 days of virus definitions)                      • Diskeeper® Home                      • PC-Doctor™ (diagnostics)                      • Adobe® Reader                      • Windows Live™ Toolbar                      • Windows Live Search                      • Picasa from Google                      • Microsoft Office 2007 Trial (60-day)                      • Sonic RecordNow and Drive Letter Access (DVD±RW)                      • Corel® WinDVD® (DVD, DVD±RW)</p>															
<b>Accessories</b>		<p>1GB PC3-8500 DDR3 UDIMM 45J5434                      2GB PC3-8500 DDR3 UDIMM 45J5435                      500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990                      1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918                      USB 2.0 Lenovo Multimedia Headset 40Y8518                      USB 2.0 Lenovo Webcam 40Y8519                      USB 2.0 Essential Memory Key 32GB 45K1258                      USB 2.0 Ultra Secure Memory Key 8GB 45J5918                      USB 2.0 Portable Secure 320GB Hard Disk 43R2019                      Blu-ray Burner / HD-DVD Player SATA Drive 43R1958                      ThinkVision® L2440x Wide 24" Monitor 4421HB2                      Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067                      Lenovo USB Fingerprint Keyboard 73P4730                      Laser Tilt Wheel Mouse (USB, PS/2) 41U3074                      Kensington Cable Lock from Lenovo 73P2582                      Kensington Twin Head Cable Lock 45K1620                      ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636                      NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635                      NVIDIA Quadro® 256MB FX 370 43R1766                      NVIDIA Quadro 512MB FX 1700 43R1767                      Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>                      Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>															
												<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• <i>Some:</i> Chassis intrusion switch</li> </ul>					
												<p>Supports ThinkVantage® technologies</p>					
												<p>GREENGUARD® certified                      RoHS-compliant</p>					
												<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>					

See footnotes for important warranty information  
 US models announced October 21, 2008

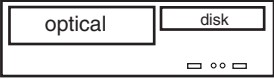






Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro Preload	Global Educ	Avail date
<b>M58p</b>	9961-A1U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>b</sup>	DVD±RW	GMA	VGA, DP	None	ES40	vPro XP Pro	No	Dec 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate stability/manageability for small and medium businesses</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with <b>dual-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache										<b>Eco Ultra Small</b> 
Implementation	Processor in FC-LGA8 package in LGA775 socket										
Memory	<b>2GB std</b> , 4GB max <sup>a</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display										<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.4" D X 3.1" H</li> <li>• 275mm W X 238mm D X 80mm H</li> <li>• 9.2 lb (4.2 kg) in maximum configuration</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - security slot and cover release button are combined into one latch for improved chassis security</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Individual USB port disablement</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)										
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar										
eSATA port	None										Supports ThinkVantage® technologies
Diskette drive	None										
Media reader	None										EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec										
Speaker	One internal speaker for business audio										
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0										
Intel AMT	Intel Active Management Technology (iAMT)										
Modem	None										
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo										
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo										
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU										
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® XP Professional with Vista® COA</li> <li>↕ Disk-to-Disk Recovery (in hidden protected area)</li> <li>↕ Vista Basic logo</li> </ul>										See footnotes for important warranty information US model announced November 11, 2008
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>										
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987</li> <li>2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>DisplayPort to Single-link DVI-D Cable 45J7915</li> <li>ThinkCentre Ultra Small Under Desk Mount 40Y8625</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Lenovo USB Fingerprint Keyboard 73P4730</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>										

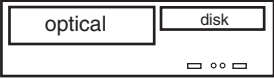
See footnotes for important warranty information  
US model announced November 11, 2008

# ThinkCentre® M58p Eco Ultra Small (7479)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global Educ	Avail date
<b>M58p</b>	7479-A4U	1x2	Core 2 Duo E8400	3.00	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-A3U	1x2	Core 2 Duo E8400	3.00	2	1GB	250GB	DVD±RW	GMA	VGA, DP		ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-A6U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP		ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-A8U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-A9U	1x2	Core 2 Duo E8500	3.16	2	1GB	160GB	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-ABU	1x2	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP		ES40	vPro	Bus32	No	Dec 08
<b>M58p</b>	7479-ACU	1x2	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Dec 08

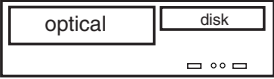
- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate stability/manageability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core,</b> Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		<b>Eco Ultra Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket			
Memory	<b>1GB or 2GB std,</b> 4GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk	Slot 1: Low Profile, 32-bit PCI 2.3
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500),</b> integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.4" D X 3.1" H</li> <li>• 275mm W X 238mm D X 80mm H</li> <li>• 9.2 lb (4.2 kg) in maximum configuration</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>	
DP dongle				
SATA disk	<b>160GB or 250GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening		<p style="text-align: center;"><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - security slot and cover release button are combined into one latch for improved chassis security</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant</p> <p style="text-align: center;"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)			
SATA DVD	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA DVD±RW	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar			
SATA cables	None			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>			
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987			
◇ Vista Premium logo	2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988			
<b>Preloaded applications<sup>5</sup></b>	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
• Rescue and Recovery™	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918			
• Client Security Solution™	USB Portable Diskette Drive 05K9276			
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518			
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519			
• ThinkVantage Power Manager	USB 2.0 Essential Memory Key 32GB 45K1258			
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916			
• Diskeeper® Home	USB 2.0 Ultra Secure Memory Key 4GB 45J5917			
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 8GB 45J5918			
• Adobe® Reader	USB 2.0 Portable 160GB Hard Disk 43R1784			
• Windows Live™ Toolbar	USB 2.0 Portable Secure 320GB Hard Disk 43R2019			
• Windows Live Search	USB 2.0 Super Multi-Burner Drive 41N5565			
• Picasa from Google	ThinkVision® L2440x Wide 24" Monitor 4421HB2			
• Microsoft Office 2007 Trial (60-day)	ThinkCentre Ultra Small Under Desk Mount 40Y8625			
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067			
• Corel® WinDVD® (DVD, DVD±RW)	Lenovo USB Fingerprint Keyboard 73P4730			
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074			
	Kensington Cable Lock from Lenovo 73P2582			
	Kensington Twin Head Cable Lock 45K1620			
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>			
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>			

See footnotes for important warranty information  
US models announced November 11, 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
<b>M58p</b>	6136-A1U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>b</sup>	DVD±RW	GMA	VGA, DP	None	ES40	vPro	Bus32	G P	Dec 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	<i>Ultimate stability/manageability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		<b>Eco Ultra Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket			
Memory	<b>2GB std</b> , 4GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk  Slot 1: Low Profile, 32-bit PCI 2.3	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 10.8" W X 9.4" D X 3.1" H</li> <li>• 275mm W X 238mm D X 80mm H</li> <li>• 9.2 lb (4.2 kg) in maximum configuration</li> <li>• Hinged toolless cover for easy serviceability</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display			
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		<p style="text-align: center;"><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - security slot and cover release button are combined into one latch for improved chassis security</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		Supports ThinkVantage® technologies	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Premium logo		EPEAT™ Gold rating ENERGY STAR® 4.0-compliant GREENGUARD® certified RoHS-compliant	
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>			
<b>Accessories</b>	1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 USB 2.0 Super Multi-Burner Drive 41N5565 ThinkVision® L2440x Wide 24" Monitor 4421HB2 DisplayPort to Single-link DVI-D Cable 45J7915 ThinkCentre Ultra Small Under Desk Mount 40Y8625 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Lenovo USB Fingerprint Keyboard 73P4730 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 Kensington Twin Head Cable Lock 45K1620 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		<p style="text-align: center;"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information  
 US model announced November 11, 2008

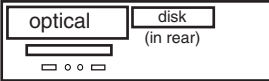


# ThinkCentre® M58p Small (9964) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
<b>M58p</b>	9964-A1U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>2</sup>	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 08
<b>M58p</b>	9964-A2U	2x3	Core 2 Quad Q9400	2.66	4	2GB	250GB	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<p><i>Ultimate stability/manageability for small and medium businesses</i></p> <p><b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or</p> <p><b>Intel Core 2 Quad Processor Q9400</b> with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache</p>		<p><b>Small</b></p> 
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<p><b>2GB std, 8GB max<sup>8</sup>, PC3-8500 1066MHz DDR3</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in two sockets; two sockets available</p>		<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 3.5", 1" high, no access, std disk</p> <p>Bay ③ 3.5", .5" high, access, open (reader)</p> <p>Slot 1: Low Profile, PCI Express 2.0 x16</p> <p>Slot 2: Low Profile, 32-bit PCI 2.3</p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>
Graphics	<p><b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b>, integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>GREENGUARD® certified RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA disk	<p><b>160GB or 250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar		
eSATA port	One external SATA (eSATA) port		
Diskette drive	None		
Media reader	None		
Chipset	<p><b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O</p>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosenensing, two diagnostic LEDs		
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® XP Professional with Vista® COA</p> <p>↔ Disk-to-Disk Recovery (in hidden protected area)</p> <p>↔ Vista Basic logo</p>		
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>		
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Security Memory Key 2GB 41U5119</li> <li>USB 2.0 Security Memory Key 4GB 41U5120</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>DisplayPort to Single-link DVI-D Cable 45J7915</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Lenovo USB Fingerprint Keyboard 73P4730</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		

See footnotes for important warranty information  
US models announced October 21, 2008

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(MLAN1-5) October 2008



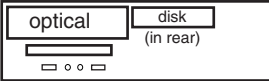


# ThinkCentre® M58p Small (7220) - ENERGY STAR® 4.0

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global Educ	Avail date
<b>M58p</b>	7220-A6U	2x3	Core 2 Duo E8400	3.00	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7220-A7U	2x3	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7220-A8U	2x3	Core 2 Duo E8500	3.16	2	1GB	250GB	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7220-A9U	2x3	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7220-ABU	2x3	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Nov 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<i>Ultimate stability/manageability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache	<b>Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<b>1GB or 2GB std</b> , 8GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)	
Graphics	<i>Some:</i> <b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> <b>ATI™ Radeon™ HD 3470</b> , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts	Slot 1: Low Profile, PCI Express 2.0 x16* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models	
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• System floor stand for vertical orientation</li> </ul>	
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening	<b>Security</b>	<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)	Supports ThinkVantage® technologies	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 4.0-compliant GREENGUARD® certified RoHS-compliant	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar	<b>Limited Warranty<sup>1</sup></b>	<ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
eSATA port	One external SATA (eSATA) port		
Diskette drive	None	Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Media reader	None	Mouse Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Power supply 280 watts with variable speed fan, autosenesing, 85% PSU	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	<b>Preloaded operating system<sup>20</sup></b>	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA	- Microsoft® Windows® Vista® Business Edition (32-bit) ↕ Vista Premium logo	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	<b>Accessories</b>	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 USB 2.0 Super Multi-Burner Drive 41N5565 ThinkVision® L2440x Wide 24" Monitor 4421HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	<b>Preloaded applications<sup>5</sup></b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> </ul>	
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		

See footnotes for important warranty information  
US models announced October 21, 2008

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(MLAN1-6) October 2008





# ThinkCentre® M58p Small (6234) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
<b>M58p</b>	6234-A1U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>2</sup>	DVD±RW	GMA	VGA, DP	None	ES40	vPro	Bus32	G P	Nov 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**

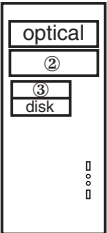
Positioning Processor	<i>Ultimate stability/manageability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E8400</b> with <b>dual-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache	<b>Small</b>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<b>2GB std</b> , 8GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)	
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display	Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	One external SATA (eSATA) port		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosenesing, 85% PSU		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	Supports ThinkVantage® technologies	
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 UDIMM 45J5434	Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 4.0-compliant GREENGUARD® certified RoHS-compliant	
↕ Vista Premium logo	2GB PC3-8500 DDR3 UDIMM 45J5435		
<b>Preloaded applications<sup>5</sup></b>	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
• Rescue and Recovery™	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
• Client Security Solution™	USB Portable Diskette Drive 05K9276		
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518		
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519		
• ThinkVantage Power Manager	USB 2.0 Essential Memory Key 32GB 45K1258		
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Security Memory Key 2GB 41U5119		
• Diskeeper® Home	USB 2.0 Security Memory Key 4GB 41U5120		
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916		
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 4GB 45J5917		
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 8GB 45J5918		
• Windows Live Search	USB 2.0 Portable 160GB Hard Disk 43R1784		
• Picasa from Google	USB 2.0 Portable Secure 320GB Hard Disk 43R2019		
• Microsoft Office 2007 Trial (60-day)	USB 2.0 Super Multi-Burner Drive 41N5565		
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ThinkVision® L2440x Wide 24" Monitor 4421HB2		
• Corel® WinDVD® (DVD±RW)	DisplayPort to Single-link DVI-D Cable 45J7915		
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067		
	Lenovo USB Fingerprint Keyboard 73P4730		
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074		
	Kensington Cable Lock from Lenovo 73P2582		
	Kensington Twin Head Cable Lock 45K1620		
	ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636		
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		

See footnotes for important warranty information  
US model announced October 21, 2008

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(MLAN1-8) October 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
<b>M58p</b>	9965-A1U	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>2</sup>	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 08
<b>M58p</b>	9965-A2U	4x4	Core 2 Quad Q9400	2.66	4	2GB	250GB	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

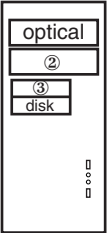
Positioning Processor	Ultimate stability/manageability for small and medium businesses <b>Intel® Core™ 2 Duo Processor E8400</b> with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or <b>Intel Core 2 Quad Processor Q9400</b> with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		<b>Tower</b>					
Implementation	Processor in FC-LGA8 package in LGA775 socket		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>					
Memory	<b>2GB std</b> , 8GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk					
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display		Slot 1: half-length, full-height, PCIe x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3					
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> </ul>					
SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)							
SATA DVD±RW	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar							
SATA cables	None							
eSATA port	None		Supports ThinkVantage® technologies					
Diskette drive	None							
Media reader	None		GREENGUARD® certified RoHS-compliant					
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>					
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)							
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)							
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec							
Speaker	One internal speaker for business audio							
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0							
Intel AMT	Intel Active Management Technology (iAMT)							
Modem	None							
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo							
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo							
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs							
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft® Windows® XP Professional with Vista® COA ↕ Disk-to-Disk Recovery (in hidden protected area) ↕ Vista Basic logo		<b>Accessories</b>					
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>		<ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>Blu-ray Burner / HD-DVD Player SATA Drive 43R1958</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>DisplayPort to Single-link DVI-D Cable 45J7915</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Lenovo USB Fingerprint Keyboard 73P4730</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>Kensington Twin Head Cable Lock 45K1620</li> <li>ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636</li> <li>NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635</li> <li>NVIDIA Quadro® 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>					

See footnotes for important warranty information  
US models announced October 21, 2008



Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Chassis intr switch	Intel vPro	Vista preload	Global Educ	Avail date
<b>M58p</b>	7484-A9U	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP			vPro	Bus32		Nov 08
<b>M58p</b>	7484-AHU	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
<b>M58p</b>	7484-AEU	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP			vPro	Bus32		Nov 08
<b>M58p</b>	7484-AGU	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
<b>M58p</b>	7484-A8U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD±RW	GMA	VGA, DP		Switch	vPro	Bus32		Nov 08
<b>M58p</b>	7484-AJU	4x4	Core 2 Duo E8500	3.16	2	1GB	160GB	DVD	GMA	VGA, DP			vPro	Bus32		Nov 08
<b>M58p</b>	7484-AMU	4x4	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP			vPro	Bus32	Educ	Nov 08
<b>M58p</b>	7484-ALU	4x4	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	GMA	VGA, DP			vPro	Bus32		Nov 08
<b>M58p</b>	7484-AKU	4x4	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
<b>M58p</b>	7484-ANU	4x4	Core 2 Quad Q9400	2.66	4	2GB	160GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08

• **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**  
 • **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	Ultimate stability/manageability for large enterprise and mid-market <b>Intel® Core™ 2 Duo Processor E8400 or E8500</b> with <b>dual-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or <b>Intel Core 2 Quad Processor Q9400</b> with <b>quad-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache	<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<b>1GB or 2GB std.</b> , 8GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	<ul style="list-style-type: none"> <li>Bay ① 5.25", 1.6" high, access, std optical</li> <li>Bay ② 5.25", 1.6" high, access, open</li> <li>Bay ③ 3.5", 1" high, access, open (reader/diskette)</li> <li>Bay ④ 3.5", 1" high, no access, std disk</li> </ul>	
Graphics	<i>Some:</i> <b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> <b>ATI™ Radeon™ HD 3470</b> , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts	<ul style="list-style-type: none"> <li>Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)*</li> <li>Slot 2: half-length, full-height, PCIe x1</li> <li>Slot 3: half-length, full-height, 32-bit PCI 2.3</li> <li>Slot 4: half-length, full-height, 32-bit PCI 2.3</li> </ul>	
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)	* used in some models	
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar		
eSATA port	None		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs		
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® Vista® Business Edition (32-bit)</li> <li>↳ Vista Premium logo</li> </ul>		
<b>Preloaded applications<sup>5</sup> (only some listed)</b>	<ul style="list-style-type: none"> <li>• <i>Some:</i> Education software</li> <li>- VitalSource Library College Edition</li> <li>- Adobe® Instructor Resource Center</li> <li>- Adobe Digital School Collection                             <ul style="list-style-type: none"> <li>- Photoshop Elements 6 (and CD)</li> <li>- Premier Elements 4 (and DVD)</li> <li>- Acrobat 8 Professional (and CD)</li> <li>- Contribute 4 (and CD)</li> </ul> </li> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> </ul>		
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC3-8500 DDR3 UDIMM 45J5434</li> <li>2GB PC3-8500 DDR3 UDIMM 45J5435</li> <li>1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>Blu-ray Burner / HD-DVD Player SATA Drive 43R1958</li> <li>ThinkVision® L2440x Wide 24" Monitor 4421HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ATI Radeon HD 3470 256MB (DP, VGA) 45K1636</li> <li>NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635</li> <li>NVIDIA Quadro® 256MB FX 370 43R1766</li> <li>NVIDIA Quadro 512MB FX 1700 43R1767</li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>		
		<ul style="list-style-type: none"> <li>↳ <b>3-year parts and labor</b></li> <li>↳ <b>International Warranty Service<sup>9</sup></b></li> <li>↳ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>7</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↳ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↳ <b>Other ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↳ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	

See footnotes for important warranty information  
US models announced October 21, 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global Educ	Avail date
<b>M58p</b>	7188-ABU	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB <sup>2</sup>	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7188-ABU	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB	DVD±RW	GMA	VGA, DP		ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7188-A9U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7188-ACU	4x4	Core 2 Duo E8500	3.16	2	1GB	160GB	DVD	GMA	VGA, DP		ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7188-AEU	4x4	Core 2 Duo E8500	3.16	2	1GB	250GB	DVD±RW	<b>3470</b>	VGA, DP	DP-to-DVI-D	ES40	vPro	Bus32	No	Nov 08
<b>M58p</b>	7188-ADU	4x4	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	<b>3470</b>	VGA, DP		ES40	vPro	Bus32	No	Nov 08

• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)  
 • These models have a 3-year limited warranty<sup>1</sup>

Positioning	<i>Ultimate stability/manageability for large enterprise and mid-market</i>	<b>Tower</b> <ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.3" D X 15.8" H</li> <li>175mm W X 440mm D X 402mm H</li> <li>24.2 lb (11.0 kg) in max configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Processor	<b>Intel® Core™ 2 Duo Processor E8400 or E8500</b> with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	<b>1GB or 2GB std, 8GB max<sup>8</sup>, PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available		
Graphics	<i>Some:</i> <b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 253MB [1GB system mem], 765MB [2GB system mem]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> <b>ATI™ Radeon™ HD 3470</b> , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 * used in some models	
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable (45J7915)		
SATA disk	<b>160GB or 250GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar		
eSATA port	None		
Diskette drive	None		
Media reader	None		
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosenesing, two diagnostic LEDs, 80% PSU		
<b>Preloaded operating system<sup>20</sup></b>		<b>Accessories</b>	
- Microsoft® Windows® Vista® Business Edition (32-bit)		1GB PC3-8500 DDR3 UDIMM	45J5434
◇ Vista Premium logo		2GB PC3-8500 DDR3 UDIMM	45J5435
<b>Preloaded applications<sup>5</sup></b>		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
• Client Security Solution™		USB 2.0 Lenovo Multimedia Headset	40Y8518
• ThinkVantage Productivity Center		USB 2.0 Lenovo Webcam	40Y8519
• ThinkVantage System Update		USB 2.0 Essential Memory Key 32GB	45K1258
• ThinkVantage Power Manager		USB 2.0 Ultra Secure Memory Key 8GB	45J5918
• Norton Internet Security™ (90 days of virus definitions)		USB 2.0 Portable Secure 320GB Hard Disk	43R2019
• Diskeeper® Home		USB 2.0 Super Multi-Burner Drive	41N5565
• PC-Doctor™ (diagnostics)		Blu-ray Burner / HD-DVD Player SATA Drive	43R1958
• Adobe® Reader		ThinkVision® L2440x Wide 24" Monitor	4421HB2
• Windows Live™ Toolbar		Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
• Windows Live Search		Lenovo USB Fingerprint Keyboard	73P4730
• Picasa from Google		Laser Tilt Wheel Mouse (USB, PS/2)	41U3074
• Microsoft Office 2007 Trial (60-day)		Kensington Cable Lock from Lenovo	73P2582
• Sonic RecordNow and Drive Letter Access (DVD±RW)		Kensington Twin Head Cable Lock	45K1620
• Corel® WinDVD® (DVD, DVD±RW)		ATI Radeon HD 3470 256MB (DP, VGA)	45K1636
		NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635
		NVIDIA Quadro® 256MB FX 370	43R1766
		NVIDIA Quadro 512MB FX 1700	43R1767
		Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
		Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
<b>Security</b>			
<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password (user and master)</li> <li>Boot sequence control</li> <li>Boot without diskette, keyboard</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> </ul>			
<b>Supports ThinkVantage® technologies</b>			
EPEAT™ Gold rating ENERGY STAR 4.0-compliant GREENGUARD® certified RoHS-compliant			
<b>Limited Warranty<sup>1</sup></b>			
<ul style="list-style-type: none"> <li>3-year parts and labor</li> <li>International Warranty Service<sup>9</sup></li> <li>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>Post warranty maintenance services available</li> <li>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup></li> </ul>			

See footnotes for important warranty information  
 US models announced October 21, 2008



Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>3</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
<b>M58p</b>	6138-A1U	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>2</sup>	DVD±RW	GMA	VGA, DP	None	vPro	Bus32	G P	Nov 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	Ultimate stability/manageability for large enterprise and mid-market Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache										<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>
Implementation	Processor in FC-LGA8 package in LGA775 socket										
Memory	<b>2GB std, 8GB max<sup>6</sup>, PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available										
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display										
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)
SATA DVD±RW	Serial Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)										Slot 2: half-length, full-height, PCIe x1
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar										Slot 3: half-length, full-height, 32-bit PCI 2.3
eSATA port	None										Slot 4: half-length, full-height, 32-bit PCI 2.3
Diskette drive	None										
Media reader	None										
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), <b>SMSC® SCH5617 Super I/O</b>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> </ul>
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec										
Speaker	One internal speaker for business audio										
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0										
Intel AMT	Intel Active Management Technology (iAMT)										
Modem	None										
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo										
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo										
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs										
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>										Supports ThinkVantage® technologies
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 UDIMM 45J5434										GREENGUARD® certified RoHS-compliant
◇ Vista Premium logo	2GB PC3-8500 DDR3 UDIMM 45J5435										
<b>Preloaded applications<sup>5</sup></b>	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ 3-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
• Rescue and Recovery™	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918										
• Client Security Solution™	USB Portable Diskette Drive 05K9276										
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518										
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519										
• ThinkVantage Power Manager	USB 2.0 Essential Memory Key 32GB 45K1258										
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916										
• Diskeeper® Home	USB 2.0 Ultra Secure Memory Key 4GB 45J5917										
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 8GB 45J5918										
• Adobe® Reader	USB 2.0 Portable 160GB Hard Disk 43R1784										
• Windows Live™ Toolbar	USB 2.0 Portable Secure 320GB Hard Disk 43R2019										
• Windows Live Search	Blu-ray Burner / HD-DVD Player SATA Drive 43R1958										
• Picasa from Google	ThinkVision® L2440x Wide 24" Monitor 4421HB2										
• Microsoft Office 2007 Trial (60-day)	DisplayPort to Single-link DVI-D Cable 45J7915										
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067										
• Corel® WinDVD® (DVD±RW)	Lenovo USB Fingerprint Keyboard 73P4730										
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074										
	Kensington Cable Lock from Lenovo 73P2582										
	Kensington Twin Head Cable Lock 45K1620										
	ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636										
	NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635										
	NVIDIA Quadro® 256MB FX 370 43R1766										
	NVIDIA Quadro 512MB FX 1700 43R1767										
	Acc Guide in pdf lenovo.com/accessoriesguide										
	Other accessories at lenovo.com/accessories										

See footnotes for important warranty information  
US model announced October 21, 2008

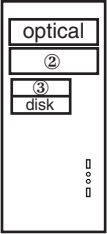


# ThinkCentre® M58p Tower (6209) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>a</sup>	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 4.0	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
<b>M58p</b>	6209-A1U	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB <sup>2</sup>	DVD±RW	GMA	VGA, DP	None	ES40	vPro	Bus32	G P	Nov 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**

Positioning Processor	<i>Ultimate stability/manageability for large enterprise and mid-market</i> <b>Intel® Core™ 2 Duo Processor E8400 with dual-core</b> , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache										<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation	Processor in FC-LGA8 package in LGA775 socket										
Memory	<b>2GB std, 8GB max<sup>a</sup>, PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available										
Graphics	<b>Intel Graphics Media Accelerator 4500 (GMA 4500)</b> , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display										
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)										Slot 2: half-length, full-height, PCIe x1
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar										Slot 3: half-length, full-height, 32-bit PCI 2.3
eSATA port	None										Slot 4: half-length, full-height, 32-bit PCI 2.3
Diskette drive	None										
Media reader	None										
Chipset	<b>Intel Q45 Express Chipset</b> (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), <b>SMSC® SCH5617 Super I/O</b>										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password (user and master)</li> <li>• Boot sequence control</li> <li>• Boot without diskette, keyboard</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch</li> </ul>
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec										
Speaker	One internal speaker for business audio										
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0										
Intel AMT	Intel Active Management Technology (iAMT)										
Modem	None										
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo										
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo										
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs, 80% PSU										Supports ThinkVantage® technologies
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>										EPEAT™ Gold rating ENERGY STAR 4.0-compliant GREENGUARD® certified RoHS-compliant
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC3-8500 DDR3 UDIMM 45J5434										<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected LOR 24x7, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
◇ Vista Premium logo	2GB PC3-8500 DDR3 UDIMM 45J5435										
<b>Preloaded applications<sup>5</sup></b>	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990										
• Rescue and Recovery™	1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918										
• Client Security Solution™	USB Portable Diskette Drive 05K9276										
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset 40Y8518										
• ThinkVantage System Update	USB 2.0 Lenovo Webcam 40Y8519										
• ThinkVantage Power Manager	USB 2.0 Essential Memory Key 32GB 45K1258										
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Ultra Secure Memory Key 2GB 45J5916										
• Diskeeper® Home	USB 2.0 Ultra Secure Memory Key 4GB 45J5917										
• PC-Doctor™ (diagnostics)	USB 2.0 Ultra Secure Memory Key 8GB 45J5918										
• Adobe® Reader	USB 2.0 Portable 160GB Hard Disk 43R1784										
• Windows Live™ Toolbar	USB 2.0 Portable Secure 320GB Hard Disk 43R2019										
• Windows Live Search	Blu-ray Burner / HD-DVD Player SATA Drive 43R1958										
• Picasa from Google	ThinkVision® L2440x Wide 24" Monitor 4421HB2										
• Microsoft Office 2007 Trial (60-day)	DisplayPort to Single-link DVI-D Cable 45J7915										
• Sonic RecordNow and Drive Letter Access (DVD±RW)	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067										
• Corel® WinDVD® (DVD±RW)	Lenovo USB Fingerprint Keyboard 73P4730										
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074										
	Kensington Cable Lock from Lenovo 73P2582										
	Kensington Twin Head Cable Lock 45K1620										
	ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636										
	NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635										
	NVIDIA Quadro® 256MB FX 370 43R1766										
	NVIDIA Quadro 512MB FX 1700 43R1767										
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>										
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>										

See footnotes for important warranty information  
US model announced October 21, 2008

**Partial list of accessories supported on ThinkCentre M58 and M58p****Memory**

*Eco Ultra Small 8820/7359/9961/7479/6136 use notebook memory:*  
 1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 *ann 08/05/08*  
 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 *ann 08/05/08*

*Small 8910/7360/6258/9964/7483/7220/6137/6234, and Tower 9960/7373/6239/9965/7484/7188/6138/6209 use desktop memory:*

1GB PC3-8500 DDR3 UDIMM 45J5434 *ann 11/18/08*  
 2GB PC3-8500 DDR3 UDIMM 45J5435 *ann 11/18/08*

**Optical**

*All:*  
 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> 41N5618 *ann 09/26/06*  
 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 *ann 09/26/06*

*Tower 9960/7373/6239/9965/7484/7188/6138/6209 support:*  
 Blu-ray Burner / HD-DVD Player SATA Drive 43R1958 *ann 12/18/07*

**Storage and removable storage**

80GB SATA 3.0Gb/s Disk (7200 rpm) 09N4253 *ann 05/19/03*  
 160GB SATA 3.0Gb/s Disk (7200 rpm) 09N4254 *ann 05/19/03*  
 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 *ann 01/24/06*  
 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 *ann 11/06/07*  
 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 *ann 08/19/08*

USB Portable Diskette Drive 05K9276 *ann 06/05/00*  
 USB 2.0 Essential Memory Key 1GB 41U4940 *ann 01/23/07*  
 USB 2.0 Essential Memory Key 2GB 41U4944 *ann 01/23/07*  
 USB 2.0 Essential Memory Key 4GB 45J7904 *ann 06/24/08*  
 USB 2.0 Essential Memory Key 8GB 45J7905 *ann 07/15/08*  
 USB 2.0 Essential Memory Key 32GB 45K1258 *ann 10/28/08*  
 USB 2.0 Security Memory Key 1GB 41U5118 *ann 07/17/07*  
 USB 2.0 Security Memory Key 2GB 41U5119 *ann 07/17/07*  
 USB 2.0 Security Memory Key 4GB 41U5120 *ann 07/17/07*  
 USB 2.0 Ultra Secure Memory Key 1GB 45J5915 *ann 08/26/08*  
 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 *ann 08/26/08*  
 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 *ann 08/26/08*  
 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 *ann 08/26/08*  
 USB 2.0 Portable 160GB Hard Disk 43R1784 *ann 09/23/08*  
 USB 2.0 Portable Secure 160GB Hard Disk 43R2018 *ann 11/18/08*  
 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 *ann 11/18/08*  
 USB 2.0 CD-RW/DVD-ROM Combo II Drive 40Y8637 *ann 01/05/06*  
 USB 2.0 Super Multi-Burner Drive 41N5565 *ann 01/23/07*

**Graphics**

*Small 8910/7360/6258/7638/9964/7483/7220/6137/6234 support Low Profile:*

ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 *ann 11/18/08*  
*Tower 9960/7373/6239/9965/7484/7188/6138/6209 support 75 watts max:*  
 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 *ann 11/18/08*  
 NVIDIA® GeForce® 9500 GT 512MB (DP, DVI) 45K1635 *ann 11/18/08*  
 NVIDIA Quadro® 256MB FX 370 43R1766 *ann 12/18/07*  
 NVIDIA Quadro 512MB FX 1700 43R1767 *ann 12/18/07*

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard 73P5220 *ann 06/21/05*  
 Preferred Pro Full Size PS/2 Keyboard 31P7415 *ann 06/04/02*  
 Enhanced Performance USB Keyboard 73P2620 *ann 03/23/04*  
 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 *ann 12/07/04*  
 USB Travel Keyboard with UltraNav™ 31P9490 *ann 04/27/04*  
 Lenovo USB Fingerprint Keyboard 73P4730 *ann 02/22/05*

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Optical Wheel Mouse (USB) 06P4069 *ann 05/21/03*  
 Optical ScrollPoint® Mouse (USB, PS/2) 31P7405 *ann 08/27/02*  
 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 *ann 01/23/07*  
 Lenovo Wireless Laser Mouse (blk, via USB) 45K1696 *ann 11/25/08*  
 Lenovo Wireless Laser Mouse (red, via USB) 51J0198 *ann 11/25/08*

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Multimedia**

USB 2.0 Lenovo Multimedia Headset 40Y8518 *ann 06/27/06*  
 USB 2.0 Lenovo Webcam 40Y8519 *ann 08/29/06*

**Security**

Kensington® Cable Lock from Lenovo 73P2582 *ann 12/29/03*  
 Kensington Twin Head Cable Lock 45K1620 *ann 09/30/08*  
 USB Gemplus GemPC Smart Card Reader 41N3040 *ann 02/21/06*

**Mounting Device**

*Eco Ultra Small 8820/7359/9961/7479/6136 support under desk mounting device:*  
 ThinkCentre Ultra Small Under Desk Mount 40Y8625 *ann 09/06/05*

**Monitors**

ThinkVision® L174 17" Monitor 9227AE1 *ann 04/15/08*  
 ThinkVision L1700p 17" Monitor 9417HE2 *ann 09/17/08*  
 ThinkVision L1900p 19" Monitor 4431HE1 *ann 11/11/08*  
 ThinkVision L1940p Wide 19" Monitor 4424HB6 *ann 09/17/08*  
 ThinkVision L200p Wide 20.1" Monitor 4438HB6 *ann 04/15/08*  
 ThinkVision L2240p Wide 22" Monitor 4422HB6 *ann 09/17/08*  
 ThinkVision L2440p Wide 24" Monitor 4420HB2 *ann 09/17/08*  
 ThinkVision L2440x Wide 24" Monitor 4421HB2 *ann 09/17/08*

More information at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Monitor Accessories<sup>46</sup>**

DisplayPort to Single-link DVI-D Cable 45J7915 *ann 08/05/08*  
 ThinkVision USB Soundbar 40Y7616 *ann 08/23/05*  
 ThinkVision Soundbar (L1900p, 24" Wide) 45K1263 *ann 09/16/08*  
 Kensington Cable Lock from Lenovo 73P2582 *ann 12/29/03*  
 Kensington Twin Head Cable Lock 45K1620 *ann 09/30/08*  
 Radial Arm 19K4464 *ann 05/05/00*

<sup>46</sup>Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English 43R1528 *ann 01/31/07*  
 Microsoft Office 2007 Small Business, Engl 43R1534 *ann 01/31/07*  
 Microsoft Office 2007 Professional, English 43R1531 *ann 01/31/07*

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Lenovo ThinkCentre A57 Small (9704) and Tower (9702)



Lenovo ThinkCentre A57 Small



Lenovo ThinkCentre A57 Small



Lenovo ThinkCentre A57 Small



Lenovo ThinkCentre A57 Small with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre A57 Tower



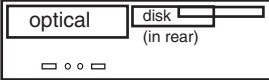
Lenovo ThinkCentre A57 Tower





Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Preload	Vista logo	Limited warranty <sup>1</sup>	Global Educ	Avail date
A57	9704-B5U	2x3	Pentium E2200	2.20	2	512MB	160GB <sup>2</sup>	DVD	GMA	XP Pro	Basic	1-yr	None	Nov 08
A57	9704-B6U	2x3	Pentium E2200	2.20	2	1GB	160GB	DVD±RW	GMA	XP Pro	Premium	1-yr	None	Nov 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program

Positioning	Quality, reliability, and security for small/medium businesses		
Processor	Intel® Pentium® Dual-Core Processor E2200 with dual-core, 800MHz system bus, and 1MB L2 cache		
Implementation	Processor in FC-LGA6 package in LGA775 socket		
Memory	512MB or 1GB std, 4GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 12.5" W X 14.0" D X 3.9" H</li> <li>• 317mm W X 355mm D X 99mm H</li> <li>• 16.1 lb (7.3 kg) in maximum configuration</li> <li>• Bays 1, 2, 3 flip up (latched and pivoting)</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> <li>• Toolless systemboard retention</li> <li>• Steel chassis supports 100 lb (45kg) monitor on top</li> <li>• System floor stand for vertical orientation</li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive (41N5618)		
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	None		
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector		
Diskette drive	None		
Media reader	None		
Chipset	Intel G31 Express Chipset; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>9</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul>
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		Supports ThinkVantage® technologies
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing		RoHS-compliant
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- Microsoft® Windows® XP Professional with Vista® COA</li> <li>◆ Disk-to-Disk Recovery (in hidden protected area)</li> </ul>		<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↔ 1-year parts and labor</li> <li>↔ International Warranty Service<sup>9</sup></li> <li>↔ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↔ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189)</li> <li>• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187)</li> <li>• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190)</li> <li>• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188)</li> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191)</li> </ul> </li> <li>↔ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↔ Post warranty maintenance services available</li> <li>↔ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskkeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Multimedia Center for Think Offerings (DVD, DVD±RW)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD, DVD±RW)</li> <li>• Corel WinDVD Creator (DVD±RW)</li> </ul>		
<b>Accessories</b>	<ul style="list-style-type: none"> <li>1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001</li> <li>2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Security Memory Key 4GB 41U5120</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>USB 2.0 Super Multi-Burner Drive 41N5565</li> <li>ThinkVision® L1700p 17" Monitor 9417HE2</li> <li>ThinkVision L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ADD2 DVI-I PCIe Connection Adapter 73P2516</li> <li>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</li> <li>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>Acc Guide in pdf lenovo.com/accessoriesguide</li> <li>Other accessories at lenovo.com/accessories</li> </ul>		

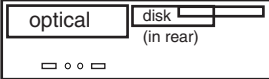
See footnotes for important warranty information  
US models announced October 21, 2008

# ThinkCentre® A57 Small (9704) - TopSeller (Vista®)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Chassis intr switch	Vista preload	Vista logo	Global Educ	Avail date
ES	A57	9704-BRU	2x3 Pentium E2180	2.00	1MB	Dual	512MB	80GB <sup>2</sup>	DVD	GMA		Bus32	Basic	None	Apr 08
ES	A57	9704-BSU	2x3 Pentium E2180	2.00	1MB	Dual	1GB	160GB	Combo	GMA		Bus32	Basic	None	Apr 08
ES	A57	9704-BFU	2x3 Pentium E2180	2.00	1MB	Dual	2GB	160GB	DVD±RW	GMA		Bus32	Prem	None	Apr 08
	A57	9704-AKU	2x3 Core 2 Duo E4600	2.40	2MB	Dual	2GB	160GB	Combo	GMA	Switch	Bus32	Prem	None	Mar 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty<sup>1</sup>

Positioning Processor	Quality, reliability, and security for small/medium businesses <b>Intel® Pentium® Dual-Core Processor E2180</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 800MHz system bus with 2MB shared L2 cache	<b>Small</b>  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader/diskette)
Implementation	Processor in FC-LGA6 package in LGA775 socket	
Memory	<b>512MB, 1GB, or 2GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.1 lb (7.3 kg) in maximum configuration • Bays 1, 2, 3 flip up (latched and pivoting) • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention • Toolless systemboard retention • Steel chassis supports 100 lb (45kg) monitor on top • System floor stand for vertical orientation
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® Microsaver® cable) - optional cable also locks the cover by deactivating the cover release buttons</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> <li>• <i>Some:</i> Chassis intrusion switch</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 1-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189)</li> <li>• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187)</li> <li>• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190)</li> <li>• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188)</li> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
SATA disk	<b>80GB or 160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> (41N5618)	
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvel® 88E8056, PCIe x1, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosenesing	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	
- Microsoft® Windows® Vista Business Edition (32-bit)	1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001	
	2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002	
	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015	
	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
	USB Portable Diskette Drive 05K9276	
	USB 2.0 Lenovo Multimedia Headset 40Y8518	
	USB 2.0 Lenovo Webcam 40Y8519	
	USB 2.0 Essential Memory Key 32GB 45K1258	
	USB 2.0 Ultra Secure Memory Key 8GB 45J5918	
	USB 2.0 Portable 160GB Hard Disk 43R1784	
	USB 2.0 Portable Secure 320GB Hard Disk 43R2019	
	ThinkVision® L1700p 17" Monitor 9417HE2	
	ThinkVision L1940p Wide 19" Monitor 4424HB6	
	ThinkVision L2240p Wide 22" Monitor 4422HB6	
	ThinkVision L2440p Wide 24" Monitor 4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074	
	Kensington Cable Lock from Lenovo 73P2582	
	ADD2 DVI-I PCIe Connection Adapter 73P2516	
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985	
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961	
	ATI Radeon HD 2400 XT 256MB 43R1962	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

See footnotes for important warranty information

ES US models announced April 8, 2008; previous model on February 26, 2008

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(TUNS1-2) April 2008









# ThinkCentre® A57 Tower (9702) - TopSeller (Vista®)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>o</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	Vista preload	Vista logo	Global Educ	Avail date
A57	9702-B4U	4x4	Celeron 430	1.80	512KB	Single	512MB	80GB <sup>2</sup>	No	DVD	GMA		Home Basic	Basic	No	Mar 08
A57	9702-DAU	4x4	Pentium E2180	2.00	1MB	Dual	512MB	80GB	No	DVD	GMA		Business32	Basic	No	Apr 08
A57	9702-D3U	4x4	Pentium E2180	2.00	1MB	Dual	1GB	160GB	No	Combo	GMA		Business32	Basic	No	May 08
A57	9702-D1U	4x4	Pentium E2180	2.00	1MB	Dual	2GB	160GB	No	DVD±RW	GMA		Business32	Prem	No	Apr 08
A57	9702-AMU	4x4	Core 2 Duo E4600	2.40	2MB	Dual	2GB	160GB	No	Combo	GMA	Switch	Business32	Prem	No	Mar 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Quality, reliability, and security for small/medium businesses</i></p> <p><b>Intel® Celeron® Processor 430</b> with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz system bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2180</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 800MHz system bus with 2MB shared L2 cache</p> <p>Processor in FC-LGA6 package in LGA775 socket</p>		<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation			<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p>	
Memory	<p><b>512MB, 1GB, or 2GB std, 4GB max<sup>3</sup>, PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable, two 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in both sockets; no sockets avail;</p> <p><i>Non-italics:</i> standard memory in one socket; one socket available</p>		<p>Slot 1: half-length, full-height, PCI Express x16 (75w max)</p> <p>Slot 2: half-length, full-height, PCI Express x1</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>	
Graphics	<p><b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b>, integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter</p>			
SATA disk	<p><b>80GB or 160GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p>			
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in ICH7</p>			
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive (41N5618)</p>			
SATA Combo	<p><i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive</p>			
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>			
SATA cables	<p>Two SATA cables (each 1-drop to device), four SATA connectors on planar</p>			
eSATA port	<p>None</p>			
EIDE controller	<p>Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar</p>			
Diskette drive	<p>None</p>			
Media reader	<p>None</p>			
Chipset	<p><b>Intel G31 Express Chipset</b>; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express<sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech<sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions</p>			
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>			
Rear ports	<p>Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</p>			
Internal connector	<p>Two USB 2.0 planar connectors (one used; one open for media reader)</p>			
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)</p>			
Audio	<p>High Definition (HD) Audio, Realtek<sup>®</sup> ALC662 codec</p>			
Speaker	<p>One internal speaker for business audio</p>			
Ethernet	<p>Gigabit ethernet on planar, Marvell<sup>®</sup> 88E8056, PCIe x1, Wake on LAN<sup>®</sup></p>			
Intel AMT	<p>None</p>			
Modem	<p>None</p>			
Security chip	<p>None</p>			
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>			
Mouse	<p>Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo</p>			
Power supply	<p>280 watts with variable speed fan, manual switch</p>			
<b>Preloaded operating system<sup>2o</sup></b>	<p>- <i>Some:</i> Microsoft Windows<sup>®</sup> Vista Home Basic Edition (32-bit)</p> <p>- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)</p>			
<b>Preloaded applications<sup>5</sup> (all OSes)</b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper<sup>®</sup> Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe<sup>®</sup> Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• EarthLink Trial (Vista Home Basic)</li> <li>• Sonic RecordNow and Drive Letter Access (combo, DVD±RW)</li> <li>• Corel<sup>®</sup> WinDVD<sup>®</sup> (combo, DVD, DVD±RW)</li> </ul>			
<b>Accessories</b>	<p>1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001</p> <p>2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002</p> <p>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</p> <p>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</p> <p>USB 2.0 Lenovo Multimedia Headset 40Y8518</p> <p>USB 2.0 Lenovo Webcam 40Y8519</p> <p>USB 2.0 Essential Memory Key 32GB 45K1258</p> <p>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</p> <p>USB 2.0 Portable 160GB Hard Disk 43R1784</p> <p>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</p> <p>ThinkVision<sup>®</sup> L1700p 17" Monitor 9417HE2</p> <p>ThinkVision L1940p Wide 19" Monitor 4424HB6</p> <p>ThinkVision L2240p Wide 22" Monitor 4422HB6</p> <p>ThinkVision L2440p Wide 24" Monitor 4420HB2</p> <p>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</p> <p>Kensington Cable Lock from Lenovo 73P2582</p> <p>ADD2 DVI-I PCIe Connection Adapter 73P2516</p> <p>ADD2 DVI-D Monitor Connection (HDCP) 43R1985</p> <p>ATI™ Radeon™ HD 2400 Pro 128MB 43R1961</p> <p>ATI Radeon HD 2400 XT 256MB 43R1962</p> <p>ATI Radeon HD 2600 XT 512MB 43R1963</p> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></p> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>			
			<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington<sup>®</sup> Microsaver<sup>®</sup> cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> <li>• <i>Some:</i> Chassis intrusion switch</li> </ul>	
			<p>Supports ThinkVantage<sup>®</sup> technologies</p>	
			<p>RoHS-compliant</p>	
			<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 1-year parts and labor</li> <li>↪ International Warranty Service<sup>®</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189)</li> <li>• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187)</li> <li>• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190)</li> <li>• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188)</li> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	

See footnotes for important warranty information

<sup>1</sup> US model announced April 29, 2008; previous models on February 26 or April 8, 2008

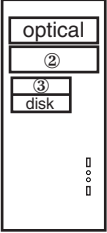
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(TUNS1-4) May 2008



Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
A57	9702-H8U	4x4	Celeron E1200	1.60	512KB	Dual	1GB	160GB <sup>b</sup>	No	DVD±RW	GMA	Home Basic	Basic	No	Dec 08
A57	9702-H9U	4x4	Pentium E2160	1.80	1MB	Dual	2GB	160GB	No	DVD±RW	GMA	Home Basic	Basic	No	Dec 08
A57	9702-HBU	4x4	Pentium E2160	1.80	1MB	Dual	2GB	320GB	No	DVD±RW	GMA	Home Premium	Basic	No	Dec 08
A57	9702-HCU	4x4	Pentium E5200	2.50	2MB	Dual	2GB	160GB	No	DVD±RW	GMA	Home Basic	Basic	No	Dec 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty<sup>1</sup>

Positioning Processor	Quality, reliability, and security for small/medium businesses <b>Intel® Celeron® Dual-Core Processor E1200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 512KB L2 cache or <b>Intel Pentium® Dual-Core Processor E2160</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or <b>Intel Pentium Dual-Core Processor E5200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 800MHz system bus with 2MB L2 cache		<b>Tower</b>																																														
Implementation	Processor in FC-LGA6 package in LGA775 socket		<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																														
Memory	<b>1GB or 2GB std</b> , 4GB max <sup>c</sup> , <b>PC2-6400 800MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk	<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> Supports ThinkVantage® technologies RoHS-compliant <b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ 1-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations)<sup>7</sup> <ul style="list-style-type: none"> <li>• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189)</li> <li>• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187)</li> <li>• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190)</li> <li>• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188)</li> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191)</li> </ul> </li> <li>↪ ThinkPlus services at lenovo.com/thinkplus/warranty</li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>																																													
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter		Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																														
SATA disk	<b>160GB or 320GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening		SATA controller Serial ATA, SATA 3.0Gb/s, integrated in ICH7 SATA DVD±RW Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620) SATA cables Two SATA cables (each 1-drop to device), four SATA connectors on planar eSATA port None EIDE controller Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar Diskette drive None Media reader None																																														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																																
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																																																
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																																																
eSATA port	None																																																
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar																																																
Diskette drive	None																																																
Media reader	None																																																
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions																																																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																																
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)																																																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																																
Speaker	One internal speaker for business audio																																																
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®																																																
Intel AMT	None																																																
Modem	None																																																
Security chip	None																																																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																																
Power supply	280 watts with variable speed fan, manual switch																																																
<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- <i>Some</i>: Microsoft® Windows® Vista Home Basic Edition (32-bit)</li> <li>- <i>Some</i>: Microsoft Windows Vista Home Premium Edition (32-bit)</li> </ul>		<b>Accessories</b> <table border="0"> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 4GB</td><td>45J5917</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1700p 17" Monitor</td><td>9417HE2</td></tr> <tr><td>ThinkVision L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ADD2 DVI-I PCIe Connection Adapter</td><td>73P2516</td></tr> <tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr> <tr><td>ATI™ Radeon™ HD 2400 Pro 128MB</td><td>43R1961</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 2600 XT 512MB</td><td>43R1963</td></tr> </table> Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1700p 17" Monitor	9417HE2	ThinkVision L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ADD2 DVI-I PCIe Connection Adapter	73P2516	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 2600 XT 512MB	43R1963
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<b>Preloaded applications<sup>5</sup></b> (all OSes)	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• System Migration Assistant</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• EarthLink Trial</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>																																																

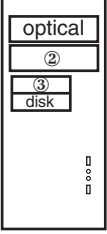
See footnotes for important warranty information  
 US models announced November 25, 2008

# ThinkCentre® A57 Tower (9851) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>6</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Limited warranty <sup>1</sup>	Global Educ	Avail date
A57	9851-B1U	4x4	Pentium E2180	2.00	1MB	Dual	512MB	80GB <sup>2</sup>	None	DVD	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-B2U	4x4	Pentium E2180	2.00	1MB	Dual	512MB	160GB	None	Combo	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-B3U	4x4	Pentium E2180	2.00	1MB	Dual	1GB	160GB	None	DVD±RW	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-A6U	4x4	Pentium E2200	2.20	1MB	Dual	1GB	160GB	None	Combo	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-BSU	4x4	Pentium E2200	2.20	1MB	Dual	2GB	160GB	None	DVD±RW	GMA	XP Pro	3-yr	None	Apr 08
A57	9851-B4U	4x4	Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	None	Combo	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-B5U	4x4	Core 2 Duo E4600	2.40	2MB	Dual	2GB	160GB	None	DVD±RW	GMA	XP Pro	3-yr	None	Mar 08
A57	9851-A7U	4x4	Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	None	DVD±RW	GMA	XP Pro	3-yr	None	Apr 08

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Positioning Processor	Quality, reliability, and security for small/medium businesses <b>Intel® Pentium® Dual-Core Processor E2180 or E2200</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 
Implementation		
Memory	<b>512MB, 1GB, or 2GB std, 4GB max<sup>8</sup>, PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter	Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA disk	<b>80GB or 160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<p align="center"><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p align="center"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>Post warranty maintenance services available</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)	
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar	
eSATA port	None	
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar	
Diskette drive	None	
Media reader	None	
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express <sup>®</sup> x1, PCI 2.3, USB, LPC bus / ITE Tech <sup>®</sup> IT8718 Super I/O for serial, parallel, keyboard, mouse functions	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)	
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek <sup>®</sup> ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell <sup>®</sup> 88E8056, PCIe x1, Wake on LAN <sup>®</sup>	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	
- Microsoft® Windows® XP Professional with Vista® COA	1GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2001
↕ Disk-to-Disk Recovery (in hidden protected area)	2GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2002
	500GB SATA 3.0Gb/s (7200 rpm)	43R1990
	USB 2.0 Lenovo Multimedia Headset	40Y8518
	USB 2.0 Essential Memory Key 32GB	45K1258
	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
	USB 2.0 Portable Secure 320GB Hard Disk	43R2019
	ThinkVision® L1940p Wide 19" Monitor	4424HB6
	ThinkVision L2240p Wide 22" Monitor	4422HB6
	ThinkVision L2440p Wide 24" Monitor	4420HB2
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074
	Kensington Cable Lock from Lenovo	73P2582
	ADD2 DVI-I PCIe Connection Adapter	73P2516
	ADD2 DVI-D Monitor Connection (HDCP)	43R1985
	ATI™ Radeon™ HD 2400 Pro 128MB	43R1961
	ATI Radeon HD 2400 XT 256MB	43R1962
	ATI Radeon HD 2600 XT 512MB	43R1963
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>	
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	

See footnotes for important warranty information

US models announced March 18, 2008; previous models on February 26, 2008

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(TUNS1-5) April 2008

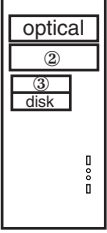


# ThinkCentre® A57 Tower (9851) - TopSeller (Vista®)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Core	Memory <sup>9</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
☞	A57	9851-C4U	4x4 Pentium E2180	2.00	1MB	Dual	1GB	160GB <sup>2</sup>	None	Combo	GMA	Business32	Basic	None	May 08
	A57	9851-BYU	4x4 Pentium E2180	2.00	1MB	Dual	2GB	160GB	None	DVD±RW	GMA	Business32	Premium	None	Apr 08
☞	A57	9851-C9U	4x4 Core 2 Duo E4600	2.40	2MB	Dual	1GB	160GB	None	Combo	GMA	Business32	Basic	None	May 08
	A57	9851-CCU	4x4 Core 2 Duo E4600	2.40	2MB	Dual	2GB	160GB	None	DVD±RW	GMA	Business32	Premium	None	Apr 08
	A57	9851-CDU	4x4 Core 2 Duo E8200	2.66	6MB	Dual	1GB	160GB	None	DVD±RW	GMA	Business32	Basic	None	Apr 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	Quality, reliability, and security for small/medium businesses <b>Intel® Pentium® Dual-Core Processor E2180</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or <b>Intel Core™ 2 Duo Processor E4600</b> with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache or <b>Intel Core 2 Duo Processor E8200</b> with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 6MB shared L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										<b>Tower</b>	
Implementation											<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2 lb (11.0 kg) in max configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Memory	<b>1GB</b> or <b>2GB</b> std, 4GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk	
Graphics	<b>Intel Graphics Media Accelerator 3100 (GMA 3100)</b> , integrated graphics in G31, uses main memory (up to 256MB), one analog VGA DB-15 connector, supports dual independent display with optional ADD2 adapter										Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										<p style="text-align: center;"><b>Security</b></p> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>RoHS-compliant</p> <p style="text-align: center;"><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>☞ <b>3-year parts and labor</b></li> <li>☞ <b>International Warranty Service<sup>9</sup></b></li> <li>☞ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>☞ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>☞ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>☞ <b>Post warranty maintenance services available</b></li> <li>☞ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7											
SATA Combo	<i>Some:</i> CD-RW/DVD-ROM Combo SATA 1.5Gb/s Drive											
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)											
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar											
eSATA port	None											
EIDE controller	Enhanced IDE, ATA-100, integrated in ICH7, one EIDE connector on planar											
Diskette drive	None											
Media reader	None											
Chipset	<b>Intel G31 Express Chipset</b> ; I/O Controller Hub 7 (ICH7) for SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O for serial, parallel, keyboard, mouse functions											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)											
Internal connector	Two USB 2.0 planar connectors (one used; one open for media reader)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Marvell® 88E8056, PCIe x1, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>											
- Microsoft® Windows® Vista Business Edition (32-bit)	1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001											
	2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002											
	250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015											
	500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990											
	USB 2.0 Lenovo Multimedia Headset 40Y8518											
	USB 2.0 Lenovo Webcam 40Y8519											
	USB 2.0 Essential Memory Key 32GB 45K1258											
	USB 2.0 Ultra Secure Memory Key 8GB 45J5918											
	USB 2.0 Portable 160GB Hard Disk 43R1784											
	USB 2.0 Portable Secure 320GB Hard Disk 43R2019											
	ThinkVision® L1940p Wide 19" Monitor 4424HB6											
	ThinkVision L2240p Wide 22" Monitor 4422HB6											
	ThinkVision L2440p Wide 24" Monitor 4420HB2											
	Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067											
	Laser Tilt Wheel Mouse (USB, PS/2) 41U3074											
	Kensington Cable Lock from Lenovo 73P2582											
	ADD2 DVI-I PCIe Connection Adapter 73P2516											
	ADD2 DVI-D Monitor Connection (HDCP) 43R1985											
	ATI™ Radeon™ HD 2400 Pro 128MB 43R1961											
	ATI Radeon HD 2400 XT 256MB 43R1962											
	ATI Radeon HD 2600 XT 512MB 43R1963											
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>											
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>											

See footnotes for important warranty information

☞ US models announced April 29, 2008; previous models on April 8, 2008

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(TUNS1-6) May 2008



## Partial list of accessories supported on ThinkCentre A57

**Memory**

512MB PC2-5300 CL5 NP DDR2 UDIMM	73P4983	ann 06/28/05
1GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2001	ann 03/25/08
1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	ann 06/28/05
2GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2002	ann 03/25/08
2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	ann 09/26/06
512MB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2976	ann 09/26/06
1GB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2977	ann 09/26/06
2GB PC2-6400 NP DDR2 UDIMM <sup>48</sup>	41U2978	ann 01/08/08

<sup>48</sup> When PC2-6400 is installed with systems that have PC2-5300 memory, PC2-6400 will operate at the PC2-5300 memory speed.

**Optical**

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

**Storage and removable storage**

80GB SATA 3.0Gb/s Disk (7200 rpm)	09N4253	ann 05/19/03
160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07

USB Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 Essential Memory Key 1GB	41U4940	ann 01/23/07
USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Security Memory Key 1GB	41U5118	ann 07/17/07
USB 2.0 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

**Graphics**

*Small 9704 supports Low Profile 35 watts max:*

ADD2 DVI-I PCIe Connection Adapter	73P2516	ann 06/28/05
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 2400 Pro 128MB	43R1961	ann 11/06/07
ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07

*Tower 9702/9851 support 75 watts max:*

ADD2 DVI-I PCIe Connection Adapter	73P2516	ann 06/28/05
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 2400 Pro 128MB	43R1961	ann 11/06/07
ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07
ATI Radeon HD 2600 XT 512MB	43R1963	ann 11/06/07

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Multimedia**

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

**Security**

Kensington® Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

**Monitors**

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

More information at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar (L1900p, 24" Wide)	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 01/31/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 01/31/07
Microsoft Office 2007 Professional, English	43R1531	ann 01/31/07

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)



Lenovo ThinkCentre A62 Desktop with four Lenovo ThinkVision monitors



Lenovo ThinkCentre A62 Tower



Lenovo ThinkCentre A62 Desktop



Lenovo ThinkCentre A62 Tower and Lenovo ThinkCentre A62 Desktop



Lenovo ThinkCentre A62 Desktop with Lenovo ThinkVision L193p monitor



Lenovo ThinkCentre A62 Tower with Lenovo ThinkVision L193p monitor

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Avail date
A62	9486-F1U	4x3	Athlon 1640B	2.7	Single	1GB	160GB <sup>2</sup>	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F2U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F3U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F4U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F5U	4x3	Athlon X2 5000B	2.6	Dual	2GB	250GB	DVD±RW	<b>9300GE</b>	DVI-I	XP Pro	None	Sep 08
A62	9486-F6U	4x3	Athlon X2 5400B	2.8	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F7U	4x3	Athlon X2 5400B	2.8	Dual	2GB	250GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F8U	4x3	Phenom X3 8450	2.1	Triple	1GB	250GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
A62	9486-F9U	4x3	Phenom X3 8450	2.1	Triple	2GB	160GB	DVD±RW	<b>9300GE</b>	DVI-I	XP Pro	None	Sep 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Stability and manageability for large enterprise and mid-market</i>  <b>AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 5000B</b> or <b>5400B</b> with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8450</b> with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+</p>		<p><b>Desktop</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4lb (8.8kg) in typical configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, access, open*                  Bay ③ 3.5", 1" high, no access, std disk</p> <p>* supports reader/diskette/2nd disk</p> <p>Slot 1: Low Profile, PCI Express 2.0 x1                  Slot 2: Low Profile, PCI Express 2.0 x16 (35w max)**                  Slot 3: Low Profile, 32-bit PCI 2.3                  Slot 4: Low Profile, 32-bit PCI 2.3</p> <p>** used in some models</p>
Implementation			<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>
Memory	<p><b>1GB or 2GB std.</b>, 8GB max<sup>8</sup>, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; three sockets available;  <b>F8U/F9U:</b> <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel;  <i>Others:</i> <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel</p>		<p>Supports ThinkVantage® technologies</p>
Graphics	<p><i>Some:</i> <b>ATI™ Radeon™ 3100</b>, int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 9300 GE</b>, PCI Express® x16 adapter, 256MB, one DVI-I connector (includes DVI-to-VGA dongle), S-Video out for TV-out, HDCP, DirectX 10, 30 watts</p>		<p>GREENGUARD® certified                  RoHS-compliant</p>
SATA disk	<p><b>160GB or 250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)</li> <li>• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)</li> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support</p>		
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> Drive (41N5618)</p>		
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>		
SATA cables	<p>Two SATA cables (each 1-drop to device), four SATA connectors on planar</p>		
eSATA port	None		
EIDE controller	None		
Diskette drive	None		
Media reader	None		
Chipset	<p><b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O</p>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),  <b>F5U/F9U:</b> monitor (DVI-I), S-Video out;  <i>Others:</i> monitor (VGA DB-15, DVI-D)</p>		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0		
Modem	None		
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	<p>- Microsoft® Windows® XP Professional with Vista® COA</p> <p>↪ Disk-to-Disk Recovery (in hidden protected area)</p> <p>↪ Vista Basic logo</p>		
<b>Preloaded applications<sup>5</sup></b> (only some listed)	<p>• Rescue and Recovery™</p> <p>• Client Security Solution™</p> <p>• Microsoft Office 2007 Trial (60-day)</p> <p>• Multimedia Center for Think Offerings (DVD, DVD±RW)</p> <p>• Sonic RecordNow and Drive Letter Access (DVD±RW)</p> <p>• Corel® WinDVD® (DVD, DVD±RW)</p> <p>• Corel WinDVD Creator (DVD±RW)</p>		
<b>Accessories</b>	<p>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</p> <p>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</p> <p>1GB PC2-6400 NP DDR2 UDIMM 41U2977</p> <p>2GB PC2-6400 NP DDR2 UDIMM 41U2978</p> <p>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</p> <p>USB 2.0 Lenovo Multimedia Headset 40Y8518</p> <p>USB 2.0 Lenovo Webcam 40Y8519</p> <p>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</p> <p>ThinkVision® L2440p Wide 24" Monitor 4420HB2</p> <p>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</p> <p>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</p> <p>Kensington Cable Lock from Lenovo 73P2582</p> <p>ATI Radeon HD 2400 XT 256MB 43R1962</p> <p>ATI Radeon HD 3470 256MB (DP, VGA) 45K1636</p> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>		

See footnotes for important warranty information  
 US models announced September 9, 2008



Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date
A62	9486-E6U	4x3	Sempron LE-1300	2.3	Single	1GB	160GB <sup>2</sup>	DVD±RW	3100	VGA, DVI-D	Business32	Educ	Sep 08
A62	9486-A4U	4x3	Athlon 1640B	2.7	Single	1GB	160GB	DVD	3100	VGA, DVI-D	Business32		Sep 08
A62	9486-H9U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32	Educ	Sep 08
A62	9486-H8U	4x3	Athlon X2 4450B	2.3	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08
A62	9486-H7U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	Business32		Sep 08
A62	9486-H6U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD±RW	3100GE	DVI-I	Business32		Sep 08
A62	9486-A3U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08
A62	9486-A1U	4x3	Athlon X2 5400B	2.8	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08
A62	9486-A2U	4x3	Phenom X3 8600B	2.3	Triple	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business64		Sep 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Stability and manageability for large enterprise and mid-market</i></p> <p><b>AMD® Sempron™ Processor LE-1300</b> with single-core, integrated DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B</b> with <b>dual-core</b>, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8600B</b> with <b>triple-core</b>, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+</p>	<p><b>Desktop</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4lb (8.8kg) in typical configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, access, open*                  Bay ③ 3.5", 1" high, no access, std disk</p> <p>* supports reader/diskette/2nd disk</p> <p>Slot 1: Low Profile, PCI Express 2.0 x1                  Slot 2: Low Profile, PCI Express 2.0 x16 (35w max)**                  Slot 3: Low Profile, 32-bit PCI 2.3                  Slot 4: Low Profile, 32-bit PCI 2.3</p> <p>** used in some models</p>
Implementation		
Memory	<p><b>1GB or 2GB std</b>, 8GB max<sup>8</sup>, four 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; three sockets available;                  H8U/H9U: <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel;                  Others: <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel</p>	
Graphics	<p><i>Some:</i> <b>ATI™ Radeon™ 3100</b>, integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 9300 GE</b>, PCI Express® x16 adapter, 256MB, one DVI-I connector (includes DVI-to-VGA dongle), S-Video out for TV-out, HDCP, DirectX 10, 30 watts</p>	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                         <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)	
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar	
eSATA port	None	
EIDE controller	None	
Diskette drive	None	
Media reader	None	
Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Supports ThinkVantage® technologies
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), H6U: monitor (DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D)	GREENGUARD® certified RoHS-compliant
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0	
Modem	None	
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo	
Power supply	220 watts with variable speed fan, manual switch	
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>	
- <i>Some:</i> Microsoft® Windows® Vista Business Edition (32-bit)	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984
- <i>Some:</i> Microsoft Windows Vista Business Edition (64-bit)	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985
↔ Vista Premium logo	1GB PC2-6400 NP DDR2 UDIMM	41U2977
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	2GB PC2-6400 NP DDR2 UDIMM	41U2978
• Rescue and Recovery™	USB 2.0 Lenovo Multimedia Headset	40Y8518
• Client Security Solution™	USB 2.0 Lenovo Webcam	40Y8519
• ThinkVantage Productivity Center	USB 2.0 Ultra Secure Memory Key 8GB	45J5918
• ThinkVantage System Update	ThinkVision® L2440p Wide 24" Monitor	4420HB2
• Norton Internet Security™	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
• Microsoft Office 2007 Trial (60-day)	Kensington Cable Lock from Lenovo	73P2582
	ATI Radeon HD 2400 XT 256MB	43R1962
	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636
	Other accessories at <b>lenovo.com/accessories</b>	

See footnotes for important warranty information

Ⓜ US models announced September 9, 2008; previous models on August 12, 2008

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>d</sup>	SATA disk	SATA optical	Integrated graphics	Monitor connectors	ENERGY STAR 4.0	Preload	Global Educ	Avail date
A62	7057-B5U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB <sup>2</sup>	DVD	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
A62	7057-B6U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
A62	7057-B7U	4x3	Athlon X2 5400B	2.8	Dual	2GB	250GB	DVD±RW	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
ES A62	7057-B8U	4x3	Phenom X3 8450	2.1	Triple	1GB	160GB	DVD	3100	VGA, DVI-D	ES40	XP Pro	None	Dec 08
A62	7057-A3U	4x3	Athlon 1640B	2.7	Single	1GB	160GB	DVD	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
A62	7057-BBU	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
A62	7057-A2U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
ES A62	7057-A1U	4x3	Phenom X3 8600B	2.3	Triple	2GB	160GB	DVD±RW	3100	VGA, DVI-D	ES40	Bus64	None	Dec 08

• These models have a 3-year limited warranty<sup>1</sup>

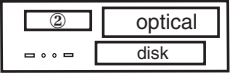
Positioning Processor	<p><b>Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B</b> with <b>dual-core</b>, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B</b> with <b>triple-core</b>, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+</p>	<p><b>Desktop</b></p> <ul style="list-style-type: none"> <li>Business black color</li> <li>13.0" W X 16.2" D X 4.1" H</li> <li>331mm W X 412mm D X 104mm H</li> <li>19.4lb (8.8kg) in typical configuration</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul>																																										
Implementation																																												
Memory	<p><b>1GB or 2GB std.</b>, 8GB max<sup>8</sup>, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; <i>Others:</i> <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable; <i>Axx:</i> <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel capable</p>	<p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 3.5", 1" high, access, open*                  Bay ③ 3.5", 1" high, no access, std disk</p> <p>* supports reader/diskette/2nd disk</p>																																										
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Ethernet	<p>Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0</p>																																											
Modem	<p>None</p>																																											
Security chip	<p>Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>																																											
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>																																											
Mouse	<p>Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo</p>																																											
Power supply	<p>220 watts with variable speed fan, autosensing, 80% PSU</p>																																											
<b>Preloaded operating system<sup>20</sup></b>	<p><i>- Some:</i> Microsoft® Windows® XP Professional with Vista® COA  <i>- Some:</i> Microsoft Windows Vista Business Edition (32-bit)  <i>- Some:</i> Microsoft Windows Vista Business Edition (64-bit)                  ♦ <i>XP models:</i> Vista Basic logo                  ♦ <i>Vista models:</i> Vista Premium logo</p>	<p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4984</td> </tr> <tr> <td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4985</td> </tr> <tr> <td>1GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2977</td> </tr> <tr> <td>2GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2978</td> </tr> <tr> <td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>41N3015</td> </tr> <tr> <td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>43R1990</td> </tr> <tr> <td>USB Portable Diskette Drive</td> <td>05K9276</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>USB 2.0 Lenovo Webcam</td> <td>40Y8519</td> </tr> <tr> <td>USB 2.0 Essential Memory Key 32GB</td> <td>45K1258</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 8GB</td> <td>45J5918</td> </tr> <tr> <td>USB 2.0 Portable Secure 320GB Hard Disk</td> <td>43R2019</td> </tr> <tr> <td>ThinkVision® L2240p Wide 22" Monitor</td> <td>4422HB6</td> </tr> <tr> <td>ThinkVision L2440p Wide 24" Monitor</td> <td>4420HB2</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>Laser Tilt Wheel Mouse (USB, PS/2)</td> <td>41U3074</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> <tr> <td>ATI Radeon HD 2400 XT 256MB</td> <td>43R1962</td> </tr> <tr> <td>ATI Radeon HD 3470 256MB (DP, VGA)</td> <td>45K1636</td> </tr> <tr> <td>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></td> <td></td> </tr> <tr> <td>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></td> <td></td> </tr> </table>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
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		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p> <p>EPEAT™ Gold rating                  ENERGY STAR 4.0-compliant                  GREENGUARD® certified                  RoHS-compliant</p> <p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↔ <b>3-year parts and labor</b></li> <li>↔ <b>International Warranty Service<sup>9</sup></b></li> <li>↔ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↔ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↔ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↔ <b>Post warranty maintenance services available</b></li> <li>↔ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																										

See footnotes for important warranty information

ES US models announced December 9, 2008; previous models on August 12 or September 9, 2008

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>6</sup>	SATA disk	SATA optical	Integrated graphics	Monitor connectors	Vista preload	Global (G) GMP (P)	Avail date
A62	7062-A1U	4x3	Athlon X2 5400B	2.8	Dual	2GB	160GB <sup>2</sup>	DVD±RW	3100	VGA, DVI-D	Business32	G P	Sep 08

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	Stability and manageability for large enterprise and mid-market <b>AMD® Athlon™ X2 Dual-Core Processor 5400B</b> with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache		<b>Desktop</b> 
Implementation	Processor in Socket AM2		
Memory	<b>2GB std</b> , 8GB max <sup>6</sup> , <b>PC2-6400 800MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available		<ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4lb (8.8kg) in typical configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> <p>Bay ① 5.25", 1.6" high, access, std optical                      Bay ② 3.5", 1" high, access, open*                      Bay ③ 3.5", 1" high, no access, std disk</p> <p>* supports reader/diskette/2nd disk</p> <p>Slot 1: Low Profile, PCI Express 2.0 x1                      Slot 2: Low Profile, PCI Express 2.0 x16 (35w max)                      Slot 3: Low Profile, 32-bit PCI 2.3                      Slot 4: Low Profile, 32-bit PCI 2.3</p>
Graphics	<b>ATI™ Radeon™ 3100</b> , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter		
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors		
eSATA port	None		
EIDE controller	None		
Diskette drive	None		
Media reader	None		
Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Marvel® 88E8070, Wake on LAN®, ASF 2.0		
Modem	None		
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, manual switch		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-6400 NP DDR2 UDIMM	41U2977	
◇ Vista Premium logo	2GB PC2-6400 NP DDR2 UDIMM	41U2978	
<b>Preloaded applications<sup>5</sup></b>	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	
• Rescue and Recovery™	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• Client Security Solution™	USB Portable Diskette Drive	05K9276	
• ThinkVantage Productivity Center	USB 2.0 Lenovo Multimedia Headset	40Y8518	
• ThinkVantage System Update	USB 2.0 Lenovo Webcam	40Y8519	
• Norton Internet Security™ (90 days of virus definitions)	USB 2.0 Essential Memory Key 32GB	45K1258	
• Diskeeper® Home	USB 2.0 Security Memory Key 2GB	41U5119	
• PC-Doctor™ (diagnostics)	USB 2.0 Security Memory Key 4GB	41U5120	
• Adobe® Reader	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	
• Windows Live™ Toolbar	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	
• Windows Live Search	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	
• Picasa from Google	USB 2.0 Portable 160GB Hard Disk	43R1784	
• Microsoft Office 2007 Trial (60-day)	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	
• Sonic RecordNow and Drive Letter Access (DVD±RW)	ThinkVision® L1700p 17" Monitor	9417HE2	
• Corel® WinDVD® (DVD±RW)	ThinkVision L1940p Wide 19" Monitor	4424HB6	
	ThinkVision L2240p Wide 22" Monitor	4422HB6	
	ThinkVision L2440p Wide 24" Monitor	4420HB2	
	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	
	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	
	Kensington Cable Lock from Lenovo	73P2582	
	ATI Radeon HD 2400 XT 256MB	43R1962	
	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	
	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		
	Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
		Supports ThinkVantage® technologies	
		GREENGUARD® certified RoHS-compliant	
		<b>Limited Warranty<sup>1</sup></b>	
		⇨ <b>3-year parts and labor</b>	
		⇨ <b>International Warranty Service<sup>9</sup></b>	
		⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b>	
		⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b>	
		• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)	
		• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)	
		• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)	
		⇨ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b>	
		⇨ <b>Post warranty maintenance services available</b>	
		⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b>	

See footnotes for important warranty information  
US model announced August 12, 2008

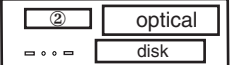


# ThinkCentre® A62 Desktop (3658) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>8</sup>	SATA disk	SATA optical	Integrated graphics	Monitor connectors	ENERGY STAR 4.0	Vista preload	Global (G) GMP (P)	Avail date
<b>A62</b>	3658-AAU	4x3	Athlon X2 5400B	2.8	Dual	2GB	160GB <sup>2</sup>	DVD±RW	3100	VGA, DVI-D	ES40	Bus32	G P	Jan 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty**

Positioning Processor	<b>Stability and manageability for large enterprise and mid-market AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core,</b> virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache Processor in Socket AM2		<b>Desktop</b>  <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 13.0" W X 16.2" D X 4.1" H</li> <li>• 331mm W X 412mm D X 104mm H</li> <li>• 19.4lb (8.8kg) in typical configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max) Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Implementation	<b>2GB std, 8GB max<sup>8</sup>, PC2-6400 800MHz DDR2,</b> non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available		
Memory	<b>ATI™ Radeon™ 3100,</b> integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter		
Graphics	<b>160GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620) Two SATA cables (each 1-drop to device), four SATA connectors eSATA port None EIDE controller None Diskette drive None Media reader None		
SATA disk	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O		
SATA controller	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
SATA DVD±RW	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)		
SATA cables	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
eSATA port	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
EIDE controller	High Definition (HD) Audio, Realtek® ALC662 codec		
Diskette drive	One internal speaker for business audio		
Media reader	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0		
Chipset	Modem None Security chip Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo		
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo		
Power supply	220 watts with variable speed fan, autosensing, 80% PSU		
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b>		
- Microsoft® Windows® Vista® Business Edition (32-bit)	1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 USB 2.0 Essential Memory Key 32GB 45K1258 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 USB 2.0 Ultra Secure Memory Key 2GB 45J5916 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 USB 2.0 Portable 160GB Hard Disk 43R1784 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkVision® L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 Kensington Cable Lock from Lenovo 73P2582 ATI Radeon HD 2400 XT 256MB 43R1962 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>		
◇ Vista Premium logo	Supports ThinkVantage® technologies		
<b>Preloaded applications<sup>5</sup></b>	EPEAT™ Gold rating 41U2978 ENERGY STAR 4.0-compliant GREENGUARD® certified RoHS-compliant		
• Rescue and Recovery™	<b>Limited Warranty<sup>1</sup></b>		
• Client Security Solution™	⇨ <b>3-year parts and labor</b> ⇨ <b>International Warranty Service<sup>9</sup></b> ⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b> ⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b>		
• ThinkVantage Productivity Center	• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194) • <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195) • <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)		
• ThinkVantage System Update	⇨ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b>		
• Norton Internet Security™ (90 days of virus definitions)	⇨ <b>Post warranty maintenance services available</b>		
• Diskeeper® Home	⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b>		
• PC-Doctor™ (diagnostics)			
• Adobe® Reader			
• Windows Live™ Toolbar			
• Windows Live Search			
• Picasa from Google			
• Microsoft Office 2007 Trial (60-day)			
• Sonic RecordNow and Drive Letter Access (DVD±RW)			
• Corel® WinDVD® (DVD±RW)			

See footnotes for important warranty information  
 US model announced December 9, 2008

# ThinkCentre® A62 Tower (9705) - TopSeller

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Vista preload	Global Educ	Avail date
A62	9705-B5U	4x4	Athlon 1640B	2.7	Single	1GB	160GB <sup>b</sup>	None	DVD±RW	3100	VGA, DVI-D	Home Basic	None	Dec 08
A62	9705-B6U	4x4	Athlon X2 4450B	2.3	Dual	2GB	160GB	None	DVD±RW	3100	VGA, DVI-D	Home Basic	None	Dec 08
A62	9705-B7U	4x4	Athlon X2 5000B	2.6	Dual	2GB	320GB	None	DVD±RW	3100	VGA, DVI-D	Home Premium	None	Dec 08

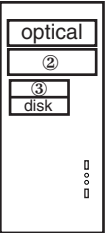
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 1-year limited warranty<sup>1</sup>**

Positioning Processor	<p><i>Quality, reliability, and manageability for small/medium businesses</i></p> <p><b>AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B</b> or <b>5000B</b> with <b>dual-core</b>, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache</p> <p>Processor in Socket AM2</p>		<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																																		
Implementation	Processor in Socket AM2		<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Slot 1: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p>																																																		
Memory	<p><b>1GB</b> or <b>2GB std</b>, 8GB max<sup>8</sup>, <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel capable, four 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in two sockets; two sockets available;</p> <p><i>Non-italics:</i> standard memory in one socket; three sockets available</p>																																																				
Graphics	<p><b>ATI™ Radeon™ 3100</b>, integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul> <p>Supports ThinkVantage® technologies</p>																																																		
SATA disk	<p><b>160GB</b> or <b>320GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening</p> <p>SATA controller Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support</p> <p>SATA DVD±RW Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p> <p>SATA cables Two SATA cables (each 1-drop to device), four SATA connectors on planar</p> <p>eSATA port None</p> <p>EIDE controller None</p> <p>Diskette drive None</p> <p>Media reader None</p>																																																				
Chipset	<p><b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O</p>		<p><b>GREENGUARD® certified</b></p> <p>RoHS-compliant</p>																																																		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																				
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																																																				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																																				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																																				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																																				
Speaker	One internal speaker for business audio																																																				
Ethernet	Gigabit ethernet on planar, Marvel® 88E8070, Wake on LAN®, ASF 2.0																																																				
Modem	None																																																				
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																																				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																				
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																																																				
Power supply	280 watts with variable speed fan, manual switch																																																				
<b>Preloaded operating system<sup>20</sup></b>	<p>- <i>Some:</i> Microsoft® Windows® Vista® Home Basic Edition (32-bit)</p> <p>- <i>Some:</i> Microsoft Windows Vista Home Premium Edition (32-bit)</p> <p>✦ Vista Basic logo</p>		<p><b>Accessories</b></p> <table border="0"> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 2GB</td><td>45J5916</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 4GB</td><td>45J5917</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1700p 17" Monitor</td><td>9417HE2</td></tr> <tr><td>ThinkVision L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr> <tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr> <tr><td>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></td><td></td></tr> <tr><td>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></td><td></td></tr> </table>	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1700p 17" Monitor	9417HE2	ThinkVision L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
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<b>Preloaded applications<sup>5</sup> (all OSes)</b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• EarthLink Trial</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>																																																				
			<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>➤ <b>1-year parts and labor</b></li> <li>➤ <b>International Warranty Service<sup>9</sup></b></li> <li>➤ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>➤ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>1-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9189)</li> <li>• <b>2-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9187)</li> <li>• <b>2-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9190)</li> <li>• <b>3-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9188)</li> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9191)</li> </ul> </li> <li>➤ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>➤ <b>Post warranty maintenance services available</b></li> <li>➤ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																																																		

See footnotes for important warranty information  
US models announced November 25, 2008

Name	Type-model	Slot x bay	AMD processor	GHz Core	Memory <sup>8</sup>	SATA disk	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date
A62	9705-B8U	4x4	Phenom X3 8450	2.1 Triple	3 x 1GB	320GB <sup>2</sup>	DVD±RW	3100, 3470	VGA, DVI-D, VGA, DP	Home Prem	No	Jan 09

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 1-year limited warranty<sup>1</sup>

Positioning Processor	Quality, reliability, and manageability for small/medium businesses		<b>AMD® Phenom™ X3 Triple-Core Processor 8450</b> with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2+		<b>Tower</b>			
Implementation					<ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>			
Memory	<b>3GB std, 8GB max<sup>8</sup>, PC2-6400 800MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in three sockets; one socket available				Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk			
Graphics	<b>ATI™ Radeon™ 3100</b> , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with standard dual-head ATI graphics adapter <b>ATI Radeon HD 3470</b> , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX 10.1, ATI Avivo, SurroundView, 25 watts				Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 * graphics adapter in slot			
SATA disk	<b>320GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support							
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)							
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors							
eSATA port	None							
EIDE controller	None							
Diskette drive	None							
Media reader	None							
Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O						<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)							
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D, VGA DB-15, DP)							
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)							
Audio	High Definition (HD) Audio, Realtek® ALC662 codec							
Speaker	One internal speaker for business audio							
Ethernet	Gigabit ethernet on planar, Marvel® 88E8070, Wake on LAN®, ASF 2.0							
Modem	None							
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo							
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo							
Power supply	280 watts with variable speed fan, manual switch							
<b>Preloaded operating system<sup>20</sup></b>	- Microsoft® Windows® Vista® Home Premium Edition (32-bit) ◇ Vista Premium logo		<b>Accessories</b>				<b>GREENGUARD® certified</b> RoHS-compliant	
<b>Preloaded applications<sup>5</sup></b>	<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• EarthLink Trial</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>		<ul style="list-style-type: none"> <li>1GB PC2-6400 NP DDR2 UDIMM 41U2977</li> <li>2GB PC2-6400 NP DDR2 UDIMM 41U2978</li> <li>250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015</li> <li>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</li> <li>USB Portable Diskette Drive 05K9276</li> <li>USB 2.0 Lenovo Multimedia Headset 40Y8518</li> <li>USB 2.0 Lenovo Webcam 40Y8519</li> <li>USB 2.0 Essential Memory Key 32GB 45K1258</li> <li>USB 2.0 Ultra Secure Memory Key 2GB 45J5916</li> <li>USB 2.0 Ultra Secure Memory Key 4GB 45J5917</li> <li>USB 2.0 Ultra Secure Memory Key 8GB 45J5918</li> <li>USB 2.0 Portable 160GB Hard Disk 43R1784</li> <li>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</li> <li>ThinkVision® L1700p 17" Monitor 9417HE2</li> <li>ThinkVision L1940p Wide 19" Monitor 4424HB6</li> <li>ThinkVision L2240p Wide 22" Monitor 4422HB6</li> <li>ThinkVision L2440p Wide 24" Monitor 4420HB2</li> <li>ThinkVision L2440x Wide 24" Monitor 4421HB2</li> <li>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</li> <li>Laser Tilt Wheel Mouse (USB, PS/2) 41U3074</li> <li>Kensington Cable Lock from Lenovo 73P2582</li> <li>ATI Radeon HD 2400 XT 256MB 43R1962</li> <li>ATI Radeon HD 3470 256MB (DP, VGA) 45K1636</li> <li>NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635</li> <li>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></li> <li>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></li> </ul>				<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>⇨ 1-year parts and labor</li> <li>⇨ International Warranty Service<sup>9</sup></li> <li>⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>⇨ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189)</li> <li>• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187)</li> <li>• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190)</li> <li>• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188)</li> <li>• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191)</li> </ul> </li> <li>⇨ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>⇨ Post warranty maintenance services available</li> <li>⇨ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>	

See footnotes for important warranty information  
US model announced December 16, 2008



# ThinkCentre® A62 Tower (9935) - TopSeller

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Preload	Global Educ	Avail date
<b>A62</b>	9935-B1U	4x4	Athlon 1640B	2.7	Single	1GB	160GB <sup>2</sup>	None	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B6U	4x4	Athlon X2 4450B	2.3	Dual	1GB	160GB	None	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B7U	4x4	Athlon X2 4450B	2.3	Dual	2GB	160GB	None	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B2U	4x4	Athlon X2 5000B	2.6	Dual	1GB	160GB	None	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B3U	4x4	Athlon X2 5000B	2.6	Dual	2GB	160GB	None	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B4U	4x4	Phenom X3 8450	2.1	Triple	1GB	160GB	None	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
<b>A62</b>	9935-B5U	4x4	Phenom X3 8450	2.1	Triple	2GB	320GB	None	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08

• **These small and medium business (SMB) models are part of the US TopSeller™ Program**  
 • **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	Quality, reliability, and manageability for small/medium businesses <b>AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B</b> or <b>5000B</b> with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8450</b> with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+	<b>Tower</b> <ul style="list-style-type: none"> <li>Business black color</li> <li>6.9" W X 17.3" D X 15.8" H</li> <li>175mm W X 440mm D X 402mm H</li> <li>24.2lb (11.0kg) in typical configuration</li> <li>Handle on top front</li> <li>Toolless cover removal</li> <li>Toolless disk, diskette drive, optical drive removal</li> <li>Toolless adapter retention</li> </ul> 																																								
Implementation																																										
Memory	<b>1GB</b> or <b>2GB std</b> , 8GB max <sup>8</sup> , <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk																																								
Graphics	<b>ATI™ Radeon™ 3100</b> , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter	Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																								
SATA disk	<b>160GB</b> or <b>320GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> <li>Individual USB port disablement</li> </ul>																																								
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support																																									
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)																																									
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)																																									
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																																									
eSATA port	None																																									
EIDE controller	None																																									
Diskette drive	None																																									
Media reader	None																																									
Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																									
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																																									
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																									
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																									
Speaker	One internal speaker for business audio																																									
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0																																									
Modem	None																																									
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																									
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																																									
Power supply	280 watts with variable speed fan, manual switch																																									
<b>Preloaded operating system<sup>20</sup></b> - Microsoft® Windows® XP Professional with Vista® COA ◇ Disk-to-Disk Recovery (in hidden protected area) ◇ Vista Basic logo  <b>Preloaded applications<sup>5</sup></b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Client Security Solution™</li> <li>ThinkVantage Productivity Center</li> <li>ThinkVantage System Update</li> <li>Norton Internet Security™</li> <li>Diskeeper® Home</li> <li>PC-Doctor™ (diagnostics)</li> <li>Picasa from Google</li> <li>Microsoft Office 2007 Trial (60-day)</li> <li>Multimedia Center for Think Offerings (DVD, DVD±RW)</li> <li>Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>Corel® WinDVD® (DVD, DVD±RW)</li> <li>Corel WinDVD Creator (DVD±RW)</li> </ul>		<b>Accessories</b> <table border="0"> <tr><td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4984</td></tr> <tr><td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td><td>73P4985</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr> <tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr> </table> Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635
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		<b>Limited Warranty<sup>1</sup></b> ⇨ <b>3-year parts and labor</b> ⇨ <b>International Warranty Service<sup>9</sup></b> ⇨ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b> ⇨ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li><b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li><b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li><b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li><b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li><b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> ⇨ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b> ⇨ <b>Post warranty maintenance services available</b> ⇨ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b>																																								

See footnotes for important warranty information  
 US models announced September 9, 2008





Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date
A62	9485-A4U	4x5	Athlon 1640B	2.7	Single	1GB	160GB <sup>2</sup>	Bay	DVD	3100	VGA, DVI-D	Bus32		Sep 08
A62	9485-F9U	4x4	Athlon X2 4450B	2.3	Dual	1GB	160GB		DVD	3100	VGA, DVI-D	Bus32		Sep 08
A62	9485-F8U	4x5	Athlon X2 4450B	2.3	Dual	1GB	160GB	Bay	DVD±RW	<b>9300GE</b>	VGA, DVI-I	Bus32		Sep 08
A62	9485-H1U	4x4	Athlon X2 4450B	2.3	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32		Sep 08
A62	9485-E2U	4x4	Athlon X2 5000B	2.6	Dual	1GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32	Educ	Sep 08
A62	9485-A1U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32		Sep 08
A62	9485-A2U	4x5	Phenom X3 8600B	2.3	Triple	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	Bus64		Sep 08

• **These models have a 3-year limited warranty<sup>1</sup>**

Positioning Processor	<p><i>Stability and manageability for large enterprise and mid-market</i></p> <p><b>AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B</b> with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8600B</b> with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+</p>	<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																															
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Memory	<p><b>1GB or 2GB std, 8GB max<sup>8</sup></b>, four 240-pin DIMM sockets;  <i>Italics:</i> standard memory in two sockets; two sockets available;  <i>Non-italics:</i> standard memory in one socket; three sockets available;  <i>Fxx/H1U:</i> <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel;  <i>Others:</i> <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel</p>	<p>Bay ① 5.25", 1.6" high, access, std optical                  Bay ② 5.25", 1.6" high, access, open                  Bay ③ 3.5", 1" high, access, open (reader/diskette)                  Bay ④ 3.5", 1" high, no access, std disk                  Bay ⑤ 3.5", 1" high, no access, opt disk*</p>																															
Graphics	<p><i>Some:</i> <b>ATI™ Radeon™ 3100</b>, int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 9300 GE</b>, PCI Express® x16 adapter, 256MB, one analog VGA DB-15 conn via cable, one DVI-I conn, S-Video out for TV-out, HDCP, DirectX 10, 30 watts</p>	<p>* 2nd Disk Bay is only available on some models</p> <p>Slot 1: half-length, full-height, PCIe 2.0 x1                  Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)**                  Slot 3: half-length, full-height, 32-bit PCI 2.3                  Slot 4: half-length, full-height, 32-bit PCI 2.3</p> <p>** used in some models</p>																															
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support																																
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup> Drive (41N5618)																																
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Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), <i>F8U:</i> monitor (VGA DB-15, DVI-I), S-Video out; <i>Others:</i> monitor (VGA DB-15, DVI-D)																																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																
Speaker	One internal speaker for business audio																																
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<b>Preloaded operating system<sup>20</sup></b>	<ul style="list-style-type: none"> <li>- <i>Some:</i> Microsoft® Windows® Vista Business Edition (32-bit)</li> <li>- <i>Some:</i> Microsoft Windows Vista Business Edition (64-bit)</li> </ul> <p>◇ Vista Premium logo</p>	<p><b>Accessories</b></p> <table border="0"> <tr> <td>1GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4984</td> </tr> <tr> <td>2GB PC2-5300 CL5 NP DDR2 UDIMM</td> <td>73P4985</td> </tr> <tr> <td>1GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2977</td> </tr> <tr> <td>2GB PC2-6400 NP DDR2 UDIMM</td> <td>41U2978</td> </tr> <tr> <td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td> <td>43R1990</td> </tr> <tr> <td>USB 2.0 Lenovo Multimedia Headset</td> <td>40Y8518</td> </tr> <tr> <td>USB 2.0 Lenovo Webcam</td> <td>40Y8519</td> </tr> <tr> <td>USB 2.0 Ultra Secure Memory Key 8GB</td> <td>45J5918</td> </tr> <tr> <td>USB 2.0 Portable Secure 320GB Hard Disk</td> <td>43R2019</td> </tr> <tr> <td>ThinkVision® L2440p Wide 24" Monitor</td> <td>4420HB2</td> </tr> <tr> <td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td> <td>73P4067</td> </tr> <tr> <td>Kensington Cable Lock from Lenovo</td> <td>73P2582</td> </tr> <tr> <td>ATI Radeon HD 2400 XT 256MB</td> <td>43R1962</td> </tr> <tr> <td>ATI Radeon HD 3470 256MB (DP, VGA)</td> <td>45K1636</td> </tr> <tr> <td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td> <td>45K1635</td> </tr> </table> <p>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>                  Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>	1GB PC2-5300 CL5 NP DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4985	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	
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<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	<ul style="list-style-type: none"> <li>• <i>Some:</i> Education software</li> <li>- VitalSource Library College Edition</li> <li>- Adobe® Instructor Resource Center</li> <li>- Adobe Digital School Collection                             <ul style="list-style-type: none"> <li>- Photoshop Elements 6 (and CD)</li> <li>- Premier Elements 4 (and DVD)</li> <li>- Acrobat 8 Professional (and CD)</li> <li>- Contribute 4 (and CD)</li> </ul> </li> <li>• Rescue and Recovery™</li> </ul>																																
		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>																															
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		GREENGUARD® certified RoHS-compliant																															
		<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>3-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9193)</li> <li>• <b>4-year LOR 9x5, Next Business Day</b> (ThinkPlus part number 41C9194)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>																															

See footnotes for important warranty information

US models announced September 9, 2008; previous models on August 12, 2008



# ThinkCentre® A62 Tower (9625) - ENERGY STAR® 4.0

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor connectors	ENERGY STAR 4.0	Preload	Global Educ	Avail date
A62	9625-B5U	4x4	Athlon X2 5000B	2.6	Dual	1GB	160GB <sup>2</sup>		DVD	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
A62	9625-B6U	4x4	Athlon X2 5000B	2.6	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
A62	9625-B7U	4x4	Athlon X2 5400B	2.8	Dual	2GB	250GB		DVD±RW	3100	VGA, DVI-D	ES40	XP Pro	None	Sep 08
A62	9625-B9U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB		DVD±RW	<b>9300GE</b>	VGA, DVI-I	ES40	XP Pro	None	Sep 08
A62	9625-B8U	4x4	Phenom X3 8450	2.1	Triple	2GB	160GB		DVD	3100	VGA, DVI-D	ES40	XP Pro	None	Dec 08
A62	9625-A3U	4x5	Athlon 1640B	2.7	Single	1GB	160GB	Bay	DVD	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
A62	9625-D2U	4x4	Athlon X2 4450B	2.3	Dual	1GB	160GB		DVD±RW	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
A62	9625-A2U	4x5	Athlon X2 5000B	2.6	Dual	1GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	ES40	Bus32	None	Sep 08
A62	9625-A1U	4x5	Phenom X3 8600B	2.3	Triple	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	ES40	Bus64	None	Dec 08

• These models have a 3-year limited warranty<sup>1</sup>

Positioning Processor	<p><i>Stability and manageability for large enterprise and mid-market</i></p> <p><b>AMD® Athlon™ Processor 1640B</b> with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or <b>AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B</b> with <b>dual-core</b>, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or <b>AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B</b> with <b>triple-core</b>, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+</p>		<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>	
Implementation				
Memory	<p><b>1GB or 2GB std</b>, 8GB max<sup>8</sup>, four 240-pin DIMM sockets;</p> <p><i>Italics:</i> standard memory in two sockets; two sockets available;</p> <p><i>Non-italics:</i> standard memory in one socket; three sockets available;</p> <p><i>D2U:</i> <b>PC2-5300 667MHz DDR2</b>, non-parity, dual-channel capable;</p> <p><i>Others:</i> <b>PC2-6400 800MHz DDR2</b>, non-parity, dual-channel capable</p>		<p>Bay ① 5.25", 1.6" high, access, std optical</p> <p>Bay ② 5.25", 1.6" high, access, open</p> <p>Bay ③ 3.5", 1" high, access, open (reader/diskette)</p> <p>Bay ④ 3.5", 1" high, no access, std disk</p> <p>Bay ⑤ 3.5", 1" high, no access, opt disk*</p>	
Graphics	<p><i>Some:</i> <b>ATI™ Radeon™ 3100</b>, int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter</p> <p><i>Some:</i> <b>NVIDIA® GeForce® 9300 GE</b>, PCI Express® x16 adapter, 256MB, one analog VGA DB-15 conn via cable, one DVI-I conn, S-Video out for TV-out, HDCP, DirectX 10, 30 watts</p>		<p>* 2nd Disk Bay is only available on some models</p> <p>Slot 1: half-length, full-height, PCIe 2.0 x1</p> <p>Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)**</p> <p>Slot 3: half-length, full-height, 32-bit PCI 2.3</p> <p>Slot 4: half-length, full-height, 32-bit PCI 2.3</p> <p>** used in some models</p>	
SATA disk	<p><b>160GB or 250GB</b>, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts</p>		<p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>	
SATA controller	<p>Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support</p>			
SATA DVD	<p><i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max<sup>4</sup> Drive (41N5618)</p>			
SATA DVD±RW	<p><i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620)</p>			
SATA cables	<p>Two SATA cables (each 1-drop to device), four SATA connectors on planar</p>			
eSATA port	<p>None</p>			
EIDE controller	<p>None</p>			
Diskette drive	<p>None</p>			
Media reader	<p>None</p>			
Chipset	<p><b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O</p>		<p>Supports ThinkVantage® technologies</p>	
Front ports	<p>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p>		<p>EPEAT™ Gold rating</p> <p>ENERGY STAR 4.0-compliant</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p>	
Rear ports	<p>Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),</p> <p><i>B9U:</i> monitor (VGA DB-15, DVI-I), S-Video out;</p> <p><i>Others:</i> monitor (VGA DB-15, DVI-D)</p>			
Internal connector	<p>Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)</p>			
Rear audio ports	<p>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p>			
Audio	<p>High Definition (HD) Audio, Realtek® ALC662 codec</p>			
Speaker	<p>One internal speaker for business audio</p>			
Ethernet	<p>Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0</p>			
Modem	<p>None</p>			
Security chip	<p>Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant</p>		<p><b>Limited Warranty<sup>1</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>3-year parts and labor</b></li> <li>↪ <b>International Warranty Service<sup>9</sup></b></li> <li>↪ <b>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</b></li> <li>↪ <b>Onsite service upgrade options (in eligible locations):<sup>7</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year LOR 9x5, 4 hour response</b> (ThinkPlus™ part number 41C9192)</li> <li>• <b>4-year LOR 9x5, 4 hour response</b> (ThinkPlus part number 41C9195)</li> <li>• <b>4-year LOR 24x7, 4 hour response</b> (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ <b>Other ThinkPlus services at lenovo.com/thinkplus/warranty</b></li> <li>↪ <b>24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</b></li> </ul>	
Keyboard	<p>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</p>			
Mouse	<p>Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo</p>			
Power supply	<p>280 watts with variable speed fan, autosensing, 80% PSU</p>			
<b>Preloaded operating system<sup>20</sup></b>	<p><b>Accessories</b></p>			
- <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA	<p>1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984</p> <p>2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985</p>			
- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit)	<p>1GB PC2-6400 NP DDR2 UDIMM 41U2977</p> <p>2GB PC2-6400 NP DDR2 UDIMM 41U2978</p>			
- <i>Some:</i> Microsoft Windows Vista Business Edition (64-bit)	<p>500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990</p> <p>USB 2.0 Essential Memory Key 32GB 45K1258</p>			
✦ <i>XP models:</i> Vista Basic logo	<p>USB 2.0 Portable Secure 320GB Hard Disk 43R2019</p> <p>ThinkVision® L2440p Wide 24" Monitor 4420HB2</p>			
✦ <i>Vista models:</i> Vista Premium logo	<p>Wireless Kbd &amp; Opt Wheel Mouse (via USB) 73P4067</p> <p>Kensington Cable Lock from Lenovo 73P2582</p>			
<b>Preloaded applications<sup>5</sup></b> (all OSes; only some listed)	<p>ATI Radeon HD 2400 XT 256MB 43R1962</p> <p>ATI Radeon HD 3470 256MB (DP, VGA) 45K1636</p> <p>NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635</p> <p>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></p>			
• Microsoft Office 2007 Trial (60-day)				
• Sonic RecordNow and Drive Letter Access (DVD±RW)				
• Corel® WinDVD® (DVD, DVD±RW)				

See footnotes for important warranty information

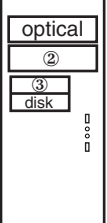
US models announced December 9, 2008; previous models on August 12 or September 9, 2008

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(ATHN1-5) December 2008

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>a</sup>	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Vista preload	Global (G) GMP (P)	Avail date
A62	7061-A1U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB <sup>2</sup>	None	DVD±RW	3100	VGA, DVI-D	Bus32	G P	Sep 08

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	Stability and manageability for large enterprise and mid-market <b>AMD® Athlon™ X2 Dual-Core Processor 5400B</b> with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache		<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul> 																																																					
Implementation	Processor in Socket AM2																																																							
Memory	<b>2GB std, 8GB max<sup>8</sup>, PC2-6400 800MHz DDR2</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available																																																							
Graphics	<b>ATI™ Radeon™ 3100</b> , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter																																																							
SATA disk	<b>160GB</b> , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																																					
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Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																																																							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																							
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Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0																																																							
Modem	None																																																							
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																																							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																							
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																																																							
Power supply	280 watts with variable speed fan, manual switch																																																							
<b>Preloaded operating system<sup>20</sup></b>	<b>Accessories</b> <table border="0"> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Security Memory Key 2GB</td><td>41U5119</td></tr> <tr><td>USB 2.0 Security Memory Key 4GB</td><td>41U5120</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 2GB</td><td>45J5916</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 4GB</td><td>45J5917</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1700p 17" Monitor</td><td>9417HE2</td></tr> <tr><td>ThinkVision L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr> <tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr> <tr><td>Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a></td><td></td></tr> <tr><td>Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a></td><td></td></tr> </table>		1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Security Memory Key 2GB	41U5119	USB 2.0 Security Memory Key 4GB	41U5120	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1700p 17" Monitor	9417HE2	ThinkVision L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a>		Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	
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• Microsoft Office 2007 Trial (60-day)																																																								
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	Supports ThinkVantage® technologies																																																							
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	<b>Limited Warranty<sup>1</sup></b> <ul style="list-style-type: none"> <li>↪ 3-year parts and labor</li> <li>↪ International Warranty Service<sup>9</sup></li> <li>↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)</li> <li>↪ Onsite service upgrade options (in eligible locations):<sup>7</sup> <ul style="list-style-type: none"> <li>• 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194)</li> <li>• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)</li> <li>• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)</li> </ul> </li> <li>↪ ThinkPlus services at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a></li> <li>↪ Post warranty maintenance services available</li> <li>↪ 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378</li> </ul>																																																							

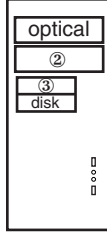
See footnotes for important warranty information  
US model announced August 12, 2008

# ThinkCentre® A62 Tower (3656) - ENERGY STAR® 4.0 (GMP)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory <sup>8</sup>	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	ENERGY STAR 4.0	Vista preload	Global (G) GMP (P)	Avail date
A62	3656-AAU	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB <sup>2</sup>	None	DVD±RW	3100	VGA, DVI-D	ES40	Bus32	G P	Jan 09

- This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty

Positioning Processor	<b>Stability and manageability for large enterprise and mid-market AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core,</b> virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache Processor in Socket AM2										<b>Tower</b> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 6.9" W X 17.3" D X 15.8" H</li> <li>• 175mm W X 440mm D X 402mm H</li> <li>• 24.2lb (11.0kg) in typical configuration</li> <li>• Handle on top front</li> <li>• Toolless cover removal</li> <li>• Toolless disk, diskette drive, optical drive removal</li> <li>• Toolless adapter retention</li> </ul>																																																			
Implementation	<b>2GB std, 8GB max<sup>8</sup>, PC2-6400 800MHz DDR2,</b> non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk																																																			
Memory	<b>ATI™ Radeon™ 3100,</b> integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter										Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																																			
Graphics	<b>160GB,</b> SATA 3.0Gb/s 7200 rpm, vibration dampening mounts SATA controller Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support SATA DVD±RW Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive (41N5620) SATA cables Two SATA cables (each 1-drop to device), four SATA connectors eSATA port None EIDE controller None Diskette drive None Media reader None																																																													
Chipset	<b>AMD 780V Chipset</b> with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																																																													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																																													
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																																																													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																																													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																																													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																																													
Speaker	One internal speaker for business audio																																																													
Ethernet	Gigabit ethernet on planar, Marvel® 88E8070, Wake on LAN®, ASF 2.0																																																													
Modem	None																																																													
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																																																													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo																																																													
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																																																													
Power supply	280 watts with variable speed fan, autosensing, 80% PSU																																																													
	<b>Preloaded operating system<sup>20</sup></b> - Microsoft® Windows® Vista® Business Edition (32-bit) ↕ Vista Premium logo <b>Preloaded applications<sup>5</sup></b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Client Security Solution™</li> <li>• ThinkVantage Productivity Center</li> <li>• ThinkVantage System Update</li> <li>• Norton Internet Security™ (90 days of virus definitions)</li> <li>• Diskeeper® Home</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Picasa from Google</li> <li>• Microsoft Office 2007 Trial (60-day)</li> <li>• Sonic RecordNow and Drive Letter Access (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>										<b>Accessories</b> <table border="0"> <tr><td>1GB PC2-6400 NP DDR2 UDIMM</td><td>41U2977</td></tr> <tr><td>2GB PC2-6400 NP DDR2 UDIMM</td><td>41U2978</td></tr> <tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr> <tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr> <tr><td>USB Portable Diskette Drive</td><td>05K9276</td></tr> <tr><td>USB 2.0 Lenovo Multimedia Headset</td><td>40Y8518</td></tr> <tr><td>USB 2.0 Lenovo Webcam</td><td>40Y8519</td></tr> <tr><td>USB 2.0 Essential Memory Key 32GB</td><td>45K1258</td></tr> <tr><td>USB 2.0 Security Memory Key 2GB</td><td>41U5119</td></tr> <tr><td>USB 2.0 Security Memory Key 4GB</td><td>41U5120</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 2GB</td><td>45J5916</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 4GB</td><td>45J5917</td></tr> <tr><td>USB 2.0 Ultra Secure Memory Key 8GB</td><td>45J5918</td></tr> <tr><td>USB 2.0 Portable 160GB Hard Disk</td><td>43R1784</td></tr> <tr><td>USB 2.0 Portable Secure 320GB Hard Disk</td><td>43R2019</td></tr> <tr><td>ThinkVision® L1700p 17" Monitor</td><td>9417HE2</td></tr> <tr><td>ThinkVision L1940p Wide 19" Monitor</td><td>4424HB6</td></tr> <tr><td>ThinkVision L2240p Wide 22" Monitor</td><td>4422HB6</td></tr> <tr><td>ThinkVision L2440p Wide 24" Monitor</td><td>4420HB2</td></tr> <tr><td>Wireless Kbd &amp; Opt Wheel Mouse (via USB)</td><td>73P4067</td></tr> <tr><td>Laser Tilt Wheel Mouse (USB, PS/2)</td><td>41U3074</td></tr> <tr><td>Kensington Cable Lock from Lenovo</td><td>73P2582</td></tr> <tr><td>ATI Radeon HD 2400 XT 256MB</td><td>43R1962</td></tr> <tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr> <tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr> </table> Acc Guide in pdf <a href="http://lenovo.com/accessoriesguide">lenovo.com/accessoriesguide</a> Other accessories at <a href="http://lenovo.com/accessories">lenovo.com/accessories</a>	1GB PC2-6400 NP DDR2 UDIMM	41U2977	2GB PC2-6400 NP DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	USB Portable Diskette Drive	05K9276	USB 2.0 Lenovo Multimedia Headset	40Y8518	USB 2.0 Lenovo Webcam	40Y8519	USB 2.0 Essential Memory Key 32GB	45K1258	USB 2.0 Security Memory Key 2GB	41U5119	USB 2.0 Security Memory Key 4GB	41U5120	USB 2.0 Ultra Secure Memory Key 2GB	45J5916	USB 2.0 Ultra Secure Memory Key 4GB	45J5917	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	USB 2.0 Portable 160GB Hard Disk	43R1784	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1700p 17" Monitor	9417HE2	ThinkVision L1940p Wide 19" Monitor	4424HB6	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440p Wide 24" Monitor	4420HB2	Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	Kensington Cable Lock from Lenovo	73P2582	ATI Radeon HD 2400 XT 256MB	43R1962	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® Microsaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard, mouse, diskette</li> <li>• Serial port I/O control</li> <li>• Parallel port I/O control</li> <li>• Individual USB port disablement</li> </ul>
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See footnotes for important warranty information  
 US model announced December 9, 2008



## Partial list of accessories supported on ThinkCentre A62

**Memory**

512MB PC2-5300 CL5 NP DDR2 UDIMM <sup>40</sup>	73P4983	ann 06/28/05
1GB PC2-5300 CL5 NP DDR2 UDIMM <sup>40</sup>	73P4984	ann 06/28/05
2GB PC2-5300 CL5 NP DDR2 UDIMM <sup>40</sup>	73P4985	ann 09/26/06
512MB PC2-6400 NP DDR2 UDIMM	41U2976	ann 09/26/06
1GB PC2-6400 NP DDR2 UDIMM	41U2977	ann 09/26/06
2GB PC2-6400 NP DDR2 UDIMM	41U2978	ann 01/08/08

<sup>40</sup> When PC2-5300 is installed with systems that have PC2-6400 memory, PC2-6400 will operate at the PC2-5300 memory speed.

**Optical**

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max <sup>4</sup>	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

**Storage and removable storage**

80GB SATA 3.0Gb/s Disk (7200 rpm)	09N4253	ann 05/19/03
160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07

USB Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 Essential Memory Key 1GB	41U4940	ann 01/23/07
USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Security Memory Key 1GB	41U5118	ann 07/17/07
USB 2.0 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

**Graphics**

Desktop 9486/7057/7062/3658 support Low Profile 35 watts max:

ATI™ Radeon™ HD 2400 XT 256MB	43R1962	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08

Tower 9705/9935/9485/9625/7061/3656 support 75 watts max:

ATI Radeon HD 2400 XT 256MB	43R1962	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® GeForce® 9500 GT 512MB (DP, DVI)	45K1635	ann 11/18/08

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Multimedia**

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

**Security**

Kensington® Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

**Monitors**

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

More information at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar (L1900p, 24" Wide)	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Radiant Arm	19K4464	ann 05/05/00

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 01/31/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 01/31/07
Microsoft Office 2007 Professional, English	43R1531	ann 01/31/07

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

**Partial list of Lenovo® ThinkPlus Services<sup>7</sup> for ThinkCentre desktops**

For more information see:

[http://www.lenovo.com/services\\_warranty/us/en/index.html](http://www.lenovo.com/services_warranty/us/en/index.html)

<p><b>ThinkPlus service upgrade options</b></p> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr><td>1-year LOR 9x5 4-hour response</td><td>41C9189</td></tr> <tr><td>2-year LOR 9x5 Next Business Day</td><td>41C9187</td></tr> <tr><td>2-year LOR 9x5 4-hour response</td><td>41C9190</td></tr> <tr><td>3-year LOR 9x5 Next Business Day</td><td>41C9188</td></tr> <tr><td>3-year LOR 9x5 4-hour response</td><td>41C9191</td></tr> </table> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr><td>3-year LOR 9x5 4-hour response</td><td>41C9192</td></tr> <tr><td>3-year LOR 24x7 4-hour response</td><td>41C9193</td></tr> <tr><td>4-year LOR 9x5 Next Business Day</td><td>41C9194</td></tr> <tr><td>4-year LOR 9x5 4-hour response</td><td>41C9195</td></tr> <tr><td>4-year LOR 24x7 4-hour response</td><td>41C9196</td></tr> </table>	1-year LOR 9x5 4-hour response	41C9189	2-year LOR 9x5 Next Business Day	41C9187	2-year LOR 9x5 4-hour response	41C9190	3-year LOR 9x5 Next Business Day	41C9188	3-year LOR 9x5 4-hour response	41C9191	3-year LOR 9x5 4-hour response	41C9192	3-year LOR 24x7 4-hour response	41C9193	4-year LOR 9x5 Next Business Day	41C9194	4-year LOR 9x5 4-hour response	41C9195	4-year LOR 24x7 4-hour response	41C9196	<p><b>ThinkPlus Priority Support for enterprise customers</b></p> <ul style="list-style-type: none"> <li>• 9x5 next-business-day response Lenovo Onsite Repair</li> <li>• 24x7 support with priority routing and advanced level technicians</li> </ul> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b></p> <table border="0"> <tr><td>3-year Priority Support</td><td>45J9087</td></tr> </table> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b></p> <table border="0"> <tr><td>3-year Priority Support</td><td>45J9088</td></tr> <tr><td>4-year Priority Support</td><td>45J9089</td></tr> <tr><td>5-year Priority Support</td><td>45J9090</td></tr> <tr><td>3-year Priority Support 4-hour response</td><td>45J9091</td></tr> <tr><td>4-year Priority Support 4-hour response</td><td>45J9092</td></tr> <tr><td>5-year Priority Support 4-hour response</td><td>45J9093</td></tr> </table>	3-year Priority Support	45J9087	3-year Priority Support	45J9088	4-year Priority Support	45J9089	5-year Priority Support	45J9090	3-year Priority Support 4-hour response	45J9091	4-year Priority Support 4-hour response	45J9092	5-year Priority Support 4-hour response	45J9093
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5-year Priority Support	45J9090																																		
3-year Priority Support 4-hour response	45J9091																																		
4-year Priority Support 4-hour response	45J9092																																		
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<p><b>ThinkPlus Secure Business</b></p> <p><b>Lenovo Online Data Backup</b></p> <ul style="list-style-type: none"> <li>• Secure offsite data storage</li> <li>• 256-bit Advanced Encryption System</li> <li>• Data recovery or access in case of an unforeseen event</li> <li>• Automatic, remote management</li> <li>• Choose which business critical data to back up</li> </ul> <table border="0"> <tr><td>1-year Lenovo Online Data Backup - <i>50GB</i></td><td>45K5849</td></tr> <tr><td>1-year Lenovo Online Data Backup - <i>Unlimited</i></td><td>45K5870</td></tr> </table>	1-year Lenovo Online Data Backup - <i>50GB</i>	45K5849	1-year Lenovo Online Data Backup - <i>Unlimited</i>	45K5870																															
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- Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.
- Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.
- <sup>1</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
  - <sup>2</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
  - <sup>3</sup> **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
  - <sup>4</sup> **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.
  - <sup>5</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.
  - <sup>6</sup> **Multi-Burner Plus** (part number 73P3305 or 73P3370) is a DVD±RW device that reads and writes to DVD-RAM, DVD-R, DVD-RW, DVD+R, and DVD+RW. It also reads and writes to CD-R and CD-RW media. 73P3370 also writes to DVD+R double layer media.
  - <sup>7</sup> **ThinkPlus Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.
  - <sup>8</sup> **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.
  - <sup>9</sup> **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
  - <sup>10</sup> **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
  - <sup>11</sup> **For combination drives,** maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
  - <sup>14</sup> **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.
  - <sup>15</sup> **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.
  - <sup>16</sup> **Embedded Security Subsystem** works with optional VPN software.



- <sup>18</sup> **Embedded Security Subsystem** may require download of client security software from the Web.
- <sup>19</sup> **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- <sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.

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