

# Personal Systems Reference Lenovo 3000 Desktops 2006 to 2008 - withdrawn

June 2008 - Version 341



lenovo.com

			B'd w M. P.	0.4.7.4	NE 1.4		5. F.4 F	N
Slot x Type-mod bay	Intel L2 Processor GHz cache	Bus MHz Memory	Diskette Media drive reader					Pre- Limited Avai
8253-26U 4x4 Pei 8253-27U 4x4 Pei 8253-28U 4x4 Pei 8253-3F1U 4x4 Pei 8253-3FU 4x4 Pei 8253-3HU 4x4 Pei 8253-3HU 4x4 Pei 8253-4HU 4x4 Pei 8253-4HU 4x4 Pei 8253-4HU 4x4 Pei 8253-5CU 4x4 Pei 8253-5CU 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei	ntium 4 516 2.93 1MB 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	533MHz 256ME 533MHz 512ME 533MHz 512ME 800MHz 512ME 800MHz 512ME 800MHz 512ME 533MHz 512ME 533MHz 256ME 533MHz 512ME 800MHz 512ME 800MHz 1GB 800MHz 512ME 800MHz 512ME 800MHz 512ME 800MHz 512ME 800MHz 512ME 800MHz 512ME	9-in-1 Dskte Dskte Dskte Dskte Dskte Dskte	80GB <sup>2</sup> CD 80GB CD 80GB CD 80GB CD 80GB CD 80GB CD 80GB CD 80GB CD 80GB CD 80GB COM 160GB COM 160GB COM 80GB COM 160GB COM 80GB COM 160GB COM 80GB COM 160GB COM 160GB COM	SiS Mi SiS Mi SiS Mi ERW SiS Mi	rage 661FX	Yes Spkrs Ho XF XF Yes Spkrs Ho XF XF XF XF XF XF XF XF	ome 1-yr Feb 00 Pro 1-yr Feb 00 Pro 1-yr Feb 00 Pro 1-yr Apr 00 Pro 1-yr May 00 Pro 1-yr May 00 Pro 1-yr July 00 Pro 1-yr Feb 00 Pro 1-
Positioning Processor	The smart choice for sm Intel® Pentium® 4 Proce		524 541 630 4	or 640 with	Tower			optical
L2 cache Implementation	single-core, EM64T, Hyp EIST (6xx only), Execute and 533 or 800MHz bus 1MB or 2MB std and ma Processor and L2 cache *256, 512MB or 1GB std Two 184-pin DIMM sock socket); others: one sock	per-Threading te e Disable Bit (52 ax / ECC / full sp e in FC-LGA4 in / 2GB max ets / E2U/5CU: t et used / <b>PC320</b>	chnology (521/5 1/524/6xx only) eed LGA775 socket wo sockets use 0 400MHz DDR	524/6xx only), , d (512MB eac 1 / non-parity	• 7.1" W • 180mm • 20.01 te • Handle • Thumb: • Toolles:	X 17.5" D X 1 W X 445mm o 20.3 lb (9.1 on top front screw for rem	D X 392mm H	diskette
Graphics	CAS latency 3 (CL3) / ur SiS® Mirage Graphic E graphics in north bridge one 15-pin analog D-sub	ngine (SiS Mira / uses main mei	ge) / integrated nory (32 to 64N	/ ИВ) / 200MHz	Bay 2 5.	25", 1.6" high 25", 1.6" high 5", 1" high,	, access, o access, s	td optical open td or opt diskette or media reader
SATA disk SATA controller SATA cables EIDE CD EIDE Combo	80 or 160GB / SATA300 Serial ATA 1.0 / 150 MB, One SATA cable (one 1- Some: 48X-20X <sup>4</sup> CD-RG Some: 48X/32X/48X/16	7200 rpm /sec SATA150 / i drop to disk) / 2 OM iX Max <sup>11</sup> CD-RW	ntegrated in sou SATA connecto //DVD-ROM Co	uth bridge rs on planar mbo	Slot 1: ha Slot 2: ha Slot 3: ha Slot 4: ha	alf-length, full- alf-length, full- alf-length, full-	no access, s height, 32-bit height, 32-bit height, 32-bit height, 32-bit	td disk AGP 8X PCI 2.3 PCI 2.3
EIDE DVD±RW EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Some: DVD and CD bu Model F1U: DVD and C Enhanced IDE / ATA-100 One 2-drop EIDE cable Some: 3.5" 1.44MB disl Some: 9-in-1 media rea	CD burner / Supe D / integrated in to optical / two E kette drive ider / occupies d	er Multi-Burner /O Controller H IDE connectors iskette drive ba	DL Drive (par ub (ICH6) s on planar y / internal US	t 41N5581) SB 2.0	entire sys - Padlock - No secu		h cover and object: for opt padlock) ar for optional
Chipset	SiS 661FX Chipset / Sis with AGP 8X support / Significant PCI 2.3 bus, USB, Low I serial, parallel, diskette,	SiS964 south brid Pin Count Interfa	dge for SATA 15 ice / ITE Tech®	0, ATA-100/1	33 EĬDE,	<ul><li>No keyli</li><li>Power-on</li><li>Administr</li></ul>	ock	
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphor Four USB 2.0, one 9-pin mouse (PS/2), ethernet Microphone-in (mono), li Integrated digital audio / Some: desktop speaker	serial, parallel ( (RJ-45), monitor ine-in (stereo), li AC '97 interface	25-pin), keyboa (DB-15) ne-out (stereo) e / Realtek ALC	[all 3.5mm] 655 codec	,	<ul><li>Boot with</li><li>Unattend</li><li>Hard disk</li><li>Serial point</li></ul>		
Beeper Ethernet	One internal beeper 10/100 ethernet on system PCI 2.3 / Wake on LAN® Some: 56K¹0 V.90 data/	emboard / Realt / PXE 2.0 and F	ek 8100C contro RPL remote boo	oller (MAC/PH	HY) /	□ 1-year p     □ Internati	MITED WARI	r / Service <sup>9</sup>
Keyboard Mouse Power supply	104-key Preferred Pro F Optical Wheel Mouse (U 250 watts / universal / m	ull-size keyboard ISB only), 400 d	d (6-pin PS/2 co	<u> </u>	<u> </u>	parts are 8 am - 5 excludin	pm, Mon - Fri ig holidays,	onsite service <sup>3</sup> , coverage
Microsoft® Window Preload with Wir Microsoft Window	Recovery™ te nager Security™ 2005 dition agnostics) o ogle	Center™ w • Corel Phot • AOL and E • Some:Micr • Roxio Digit • InterVideo • InterVideo CD - Some: Mic License - CI - Lotus® Sm. Lotus Note	3253-F1U: Core ith WordPerfect o Album Starter arthLink (XP Ho osoft Office Sma 2003 Service P. allMedia LE (CE WinDVD (comb WinDVD Creato rosoft Office SB O not included (i artSuite® Millen s® Stand-alone upported on XF	© Office 12  Office 12	only) dition 2003 DVD±RW) ±RW)	Onsite s (in eligit 2-year (Lenow 3-year (Lenow Post-wai 1-year (Lenow 2-year (Lenow Lenow 24x7 <sup>14</sup> to issues d	o Care <sup>sM</sup> part r LOR 9x5, Nex o Care part nu rranty maintel LOR 9x5, Nex o Care part nu LOR 9x5, Nex o Care part nu Care services novo.com/war	te options te Business Day number 41K0541) te Business Day mber 41K0542) nance services: te Business Day mber 41K0543) te Business Day mber 41K0544) at ranty ref for warranty ranty period

Slot x Type-mod bay P	Intel rocessor GHz	L2 cache	Dual core	Diskette Memory drive			Integrated graphics				Limited Avail warranty¹ date
8255-FAU 3x4 Pent 8255-FBU 3x4 Pent 8255-FCU 3x4 Pent	tium D 820 2.80	2x1MB	Dual	512MB		Combo	GMA 950 GMA 950 GMA 950	945GZ		XP Pro	1-yr July 06 1-yr July 06 1-yr July 06

		T	
Positioning Processor	The smart choice for small business Intel® Pentium D Processor 820 with dual-core, EM64T, Execute Disable Bit, and 800MHz system bus with two x 1MB (dual-core) L2 cache	• 7.1" W X	black color with silver accents 77.5" D X 15.4" H
Implementation	Processor and L2 cache in FC-LGA4 or LGA6 in LGA775 socket		) 2 lb (0 1 to 0 2 kg)
Memory - std/max Memory	*S12MB or 1GB std / 2GB max Two 240-pin DIMM sockets / FCU: two sockets used (512MB in each socket); others: one socket used / one socket available PC2-4200 533MHz DDR2 / non-parity / CAS latency 4 (CL4) / unbuffered / dual-channel capable	Handle or     Thumbsc     Toolless e	n top front removal of side covers
Graphics	Intel Graphics Media Accelerator 950 (GMA 950) / integrated graphics in 945GZ GMCH / uses main memory / 400MHz / one 15-pin analog D-sub connector / 945GZ does not support dual independent display	Bay @ 5.25 Bay @ 3.5"	", 1.6" high, access, open t, 1" high, access, std or opt diskette or media reader t, 1" high, no access, std disk
SATA disk SATA controller SATA cables EIDE CD EIDE Combo	80 or 160GB / SATA300 7200 rpm Serial ATA / 300MB/sec SATA300 / integrated in south bridge One SATA cable (one 1-drop to disk) / two SATA connectors on planar Some: 48X-20X <sup>4</sup> CD-ROM Some: 48X/48X/46X Max <sup>11</sup> CD-RW/DVD-ROM Combo	Slot 2: half- Slot 3: half-	-length, full-height, 32-bit PCI 2.3 - used * -length, full-height, 32-bit PCI 2.3 - used* -length, full-height, 32-bit PCI 2.3 nd FireWire adapter in some models
EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Some: DVD and CD burner / Super Multi-Burner DL Drive (part 41N55: Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH7) One 2-drop EIDE cable to optical / one EIDE connectors on planar Some: 3.5" 1.44MB diskette drive Some: 9-in-1 media reader / occupies diskette drive bay / internal USB		SECURITY     One lock to secure both cover and entire system to fixed object:     Padlock loop (in rear for opt padlock)
Chipset	Intel 945GZ Express Chipset / 82945GZ Graphics Memory Controller Hub (GMCH) / 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech® IT8712F/JX Super I/O for serial, parallel, diskette, keyboard, auto-thermal controls	mouse,	<ul> <li>No security slot (in rear for optional Kensington Microsaver cable)</li> <li>No keylock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> </ul>
Front ports Rear ports Rear audio ports	Two USB (Version 2.0), microphone (mono, 3.5mm), headphone (stered Four USB (Version 2.0), one 9-pin serial, parallel (25-pin), keyboard (PS mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	o, 3.5mm)   3.5mm]   3.5mm]	<ul> <li>Unattended start mode</li> <li>Hard disk I/O control</li> <li>Serial port I/O control</li> </ul>
Audio Beeper	Integrated digital audio / AC '97 interface / Realtek ALC655 codec One internal beeper Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenow Some: FireWire PCI adapter / 1394A, 400Mbps, dual 6-pin ports on rea 4-pin port on front of system, no external cables included	o logo	Parallel port I/O control
Ethernet Modem	10/100 ethernet on systemboard / Realtek 8100C controller (MAC/PHY PCI 2.3 / Wake on LAN® / PXE 2.0 and RPL remote boot Some: 56K¹0 V.90 data/fax soft modem / PCI adapter	´	RoHS-compliant
Keyboard	104-key Preferred Pro Full-size keyboard (6-pin PS/2 connector), black		DMI 2.0-compliant
Mouse Power supply	Optical Wheel Mouse (USB only), 400 dpi, black 250 watts / universal / manual switch		LIMITED WARRANTY¹
Microsoft® Window	ndows XP Home¹²  ws® XP Home Edition covery (in hidden  • Diskeeper™ Lite • Corel® Small Business Center™ with WordPerfect® Office 12 • Corel Photo Album Starter™ 6		<ul> <li>International Warranty Service<sup>9</sup></li> <li>Customer Replaceable Unit (CRU) parts are available with onsite service<sup>3</sup>,</li> <li>8 am - 5 pm. Mon - Fri coverage</li> </ul>

protected area)

### Preload with Windows XP Professional<sup>12</sup>

Microsoft Windows XP Professional Disk-to-Disk Recovery (in hidden protected area)

- Preloaded⁵ (all)
   Lenovo Care<sup>SM</sup> tools
- Rescue and Recovery™
- System Update
- Password Manager Norton Internet Security 2005 AntiSpyware Edition
- PC-Doctor<sup>™</sup> (diagnostics)
- Adobe® Reader
- Google Toolbar
- Google Desktop
- Picasa from Google

- Corel Photo Album Starter™ 6
- AOL and EarthLink (XP Home models only) Roxio DigitalMedia LE (combo, DVD±RW models)
- InterVideo WinDVD (combo, DVD±RW models)
   InterVideo WinDVD Creator (DVD±RW models)

## License - CD not included (all)

Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client (Notes client not supported on XP Home)

#### Accessories

Accessories on O-J sheet Other accessories at http://lenovo.com/accessories

- 8 am 5 pm, Mon Fri coverage excluding holidays, next business day response time

- Onsite service upgrade options
  (in eligible locations):<sup>7</sup>
   2-year LOR 9x5, Next Business Day
  (Lenovo Care<sup>SM</sup> part number 41K0541)
   3-year LOR 9x5, Next Business Day
  (Lenovo Care 9x5, Next Business Day
  (Lenovo Care 9x5, Next Business Day
- (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
- 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at
- http://lenovo.com/warranty
- 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period1 800-IBM-SERV (426-7378)

	AMD			D'alama	84 . 11 .	0.474	FIDE					11	A
Slot x Type-mod bay	AMD Processor GH	L2 z cache AMD	4 Memory	Diskette drive		SATA disk	EIDE optical	Integrated graphics	dem			Limited warranty	v¹ date
8258-J5U 4x4 Se 8258-J9U 4x4 Se 8258-B4U 4x4 Se 8258-B4U 4x4 Se 8258-H1U 4x4 Atl 8258-H8U 4x4 Atl 8258-H9U 4x4 Atl 8258-HBU 4x4 Atl 8258-HBU 4x4 Atl	empron 3000+ 1.8 empron 3400+ 2.0 hlon 64 3200+ 2.2	0 128KB AMD 0 128KB AMD 0 128KB AMD 0 256KB AMD 0 512KB AMD	64 512MB 64 512MB 64 512MB 64 1GB 64 256MB 64 256MB 64 512MB 64 512MB 64 512MB	B Dskte B Dskte B Dskte B Dskte B Dskte	9-in-1 9-in-1 9-in-1	80GB 80GB 80GB 160GB 80GB 80GB 160GB 160GB 250GB	CD Combo	VIA S3 VIA S3 VIA S3 VIA S3 VIA S3 VIA S3	Yes Yes Yes	Spkrs Spkrs Spkrs Spkrs	XP Home XP Pro XP Home XP Home XP Pro XP Home XP Pro Pro/SBE XP Pro XP Pro XP Home	1-yr   1-	Feb 06 Feb 06 Apr 06 July 06 Feb 06 Feb 06 Feb 06 Feb 06 Feb 06 Feb 06
Positioning Processor  L2 cache Socket  Memory - std/maximemory	The smart choice:  AMD® Sempron™ and 64-bit), integrate HyperTransport™ AMD Athlon™ 64 integrated DDR1 n to north bridge Sempron: 128KB Socket 754 (754-p	3000+ or 3400 ated DDR1 mer to north bridge 3200+ Proces; nemory control or 256KB; Athl in) B std / 2GB m I sockets / HBL e socket used /	+ Process nory contro or sor with AM er, single-con 64: 512i ax /B4U: two s PC3200 40	MD64 (32 core, and KB sockets to	gle-core 2-bit and I Hyper  used (5'	, d 64 bit), Transpor	• 7.1" \\ • 180m • 20.01 • Hand • Thum • Toolle	W X 17.5 nm W X 4 to 20.3 lle on top	DX 1 45mm lb (9.1 front for rem	5.4" H D X 39 to 9.2 I oval of s	kg) side cover ss, std	diske dis	
Graphics SATA disk	Integrated graphics UniChrome™ Pro one 15-pin analog 80GB, 160GB or 2	s in VIA K8M80 IGP / uses ma D-sub connect	0 chipset / n memory or / AGP 82	VIA® S3 up to 64 X slot av	Graph MB / 20		Bay ④ Slot 1:	half-leng	" high, gth, full	no ac		P 8X	
SATA controller SATA cables EIDE CD EIDE CD EIDE DVD±RW EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader Chipset  Front ports Rear audio ports Audio External speakers Beeper Ethernet Modem	Serial ATA / 150MI One SATA cable (c Some: 48X-20X <sup>4</sup> Some: 48X/32X/4 Some: DVD and C Model HHU/B4U: Enhanced IDE / AT One 2-drop EIDE c Some: 3.5" 1.44M Some: 9-in-1 mec VIA K8M800 chip VIA VT8237 south USB 2.0 / ITE Tech and mouse Two USB 2.0, one mouse (PS/2), eth Microphone-in (mc Integrated digital a Some: desktop sp One internal beep 10/100 ethernet or PCI 2.3 / Wake on Some: 56K <sup>10</sup> V.90	one 1-drop to di CD-ROM 8X/16X Max <sup>11</sup> (CD burner / dou DVD and CD II FA-100 / integracable to optical IB diskette drividation of the con- iset / K8M800 r bridge I/O Corn® 8705GX Sup- rophone (mono 9-pin serial, pie ernet (RJ-45), I proo), line-in (statudio / AC '97 in peakers, 2-piece er n systemboard LAN® / PXE 2.	sk) / Ž SAT CD-RW/DV ble-layer / surner / Su ted in I/O (/ two EIDE) upies diske orth bridge troller for S er I/O for s 3.5mm), h srallel (25-p nonitor (DE reo), line-c terface / R s, 6 watts (3	A conne (D-ROM Multi-Bu per Multi-Bu per Multi-Bu controlle connece ette drive e graphic 6ATA150 derial, pa neadpholoin), keyl 3-15) out (stere ealtek A 3 watts c 03L / remote	ctors or Combo urner PI i-Burne r Hub (I tors on bay / ir s and n , ATA-1: rallel, d ne (ster board (I eo) [all 3 LC655 each), b	us (part in DL Drive CH6) planar sternal Usinemory of 33 EIDE, iskette, kee, 3.5mm] codec ack, Len	Slot 4: 73P3370) e (41N558 SB 2.0 controller / PCl 2.3 breyboard, m) ovo logo	1) • O er	me lock tire sy Padloc No sec Kensin No key ower-ord with nattendard dis erial po	stem to k loop (surity slogton Milock n passwarator paguence of	assword control /board, mo it mode introl ontrol	over and ct: opt pad or optio able)	lock) nal
Keyboard Mouse Power supply	104-key Preferred Optical Wheel Mou 250 watts / univers	Pro Full-size ke use (USB only)	yboard (6- 400 dpi, b	pin PS/2			·	<i>♀</i> Ⅱ	-year p	arts an ional W	arranty Se	rvice <sup>9</sup>	n.
Microsoft® Windo - Disk-to-Disk Re protected area) Preload with Win Microsoft® Windo	ndows XP Profess ws® XP Professiona ecovery (in hidden  Ses) tools Recovery™ tte inager Security™ 2005 dition tagnostics)	on Disk All e Cen ional <sup>12</sup> • Core al • Som with Roxi Inter CD - Som Licens - Lotu Lotu	sa from Go eeper® Lite kxcept 8258 er™ with W I Photo Alk and Earth e: Microsof Office 2000 Digital M Video Winl Video Winl video Winl e: Microso se - CD not s Notes® S t not suppo	B-J9U/HH VordPerfoorum Stan Link (XP) tt Office S 3 Service edia LE DVD (col DVD Creation of the tinclude uite® Mill stand-alo	ect® Offrter™ 6 Home Imall Bu e Pack (CD-RV mbo, D\ eator (D' SBE (S d (all O lennium ne Clier	models of siness Ec (SP2) W, combo (D, DVD±RW) P2) CD Ses) and to (Notes	only) dition 2003 a, DVD±RW ±RW)	F 8 8 e e r C ( ( ( (	arts ar am - 5 xcludin ext bu Onsite : n eligi 2-year (Lenov 2-year (Lenov 2-year (Lenov 2-year (Lenov 2-year (Lenov	e availal is pm, Mo ng holic siness of service ble loca LOR 9 /o Care r LOR 9 /o Care c LOR 9	aceable U ble with on- on - Fri co- lays, day respon upgrade o utions):  x5, Next B part numb maintenan ix5, Next B part numb x5, Next B part numb compart numb ix5, Next B part numb ix5, Next B ix6, Nex	site serviverage use time ptions usiness ber 41Kusiness er 41K05 ce servi usiness er 41K05 usiness er 41K05	Day 0541) Day 642) 642) 642) 642) 643) 6543) 6543) 6544)

Slot Type-mod bay	_	GHz	L2 cache	Core	Memory	Media reader	SATA disk	EIDE optical	Graphics	Mo- dem	External speakers	Key- board	Preload	Avail date
7393-21U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB		80GB <sup>2</sup>	CD	GMA			Pref	XP Pro	Nov 06
7393-22U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB	9-in-1	160GB	Combo	GMA			EP	XP Pro	Nov 06
7393-24U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB	9-in-1	160GB	Combo	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-26U 4x4	Pentium D 820	2.80	2x1MB	Dual	1GB		250GB	<b>DVD</b> ±RW	GMA		•	Pref	XP Pro	Nov 06
7393-27U 4x4	Pentium D 820	2.80	2x1MB	Dual	1GB	9-in-1	250GB	<b>DVD</b> ±RW	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-51U 4x4	Pentium D 925	3.00	2x2MB	Dual	1GB	9-in-1	250GB	<b>DVD</b> ±RW	X300		·	EP	XP Pro	Nov 06
7393-55U 4x4	Pentium D 925	3.00	2x2MB	Dual	512MB		160GB	Combo	GMA			Pref	XP Pro	Nov 06
7393-56U 4x4	Pentium D 925	3.00	2x2MB	Dual	1GB	9-in-1	250GB	<b>DVD</b> ±RW	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-3FU 4x4	Pentium D 925	3.00	2x2MB	Dual	512MB		80GB	DVD	GMA		•	Pref	XP Pro	May 07
7393-8HU 4x4	Core 2 Duo E4300	1.80	2MB	Dual	512MB		80GB	DVD	GMA			Pref	XP Pro	May 07
7393-01U 4x4	Pentium E2140	1.60	1MB	Dual	512MB		80GB	DVD	GMA			Pref	XP Pro	Aug 07
7393-02U 4x4	Pentium E2140	1.60	1MB	Dual	512MB		160GB	Combo	GMA			Pref	XP Pro	Aug 07
	• These models	have a	1-voar li	mitad	warranty	1								

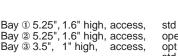
These models have a 1-year limited warranty

Positioning Processor	Excellent performance at competitive prices Intel® Pentium® D Processor 820 or 925 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST (9xx only), 800MHz system bus, and 2x1MB or 2x2MB L2 cache or Intel Pentium Dual-Core Processor E2140 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E4300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache Processor and L2 cache in FC-LGA4 or LGA6 in LGA775 socket	To
Memory	512MB or 1GB std, 4GB max <sup>8</sup> , PC2-4200 533MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; no sockets available Non-italics: standard memory in one socket; one socket available	
Graphics (one of following)	Intel Graphics Media Accelerator 3000 (GMA 3000), integrated graphics in 946GZ, uses main memory (up to 256MB), 400MHz, one 15-pin analog D-sub connector, supports optional ADD2 adapter but not dual independent display     ATI™ Radeon™ X300 SE, PCI Express x16 adapter, 128MB 400MHz DDR1, 400MHz RAMDAC, two 15-pin analog D-sub connectors, dual head support	S S S S *

Tower

- Business black color with silver accents
- 7.1" W X 17.5" D X 15.4" H 180mm W X 445mm D X 392mm H
- 20.1 to 22.5 lb (9.1 to 10.2 kg)
- Handle on top front
- Thumbscrew for removal of side covers Toolless entry





std optical open opt diskette or std or opt media reader

optical

2

(3)

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 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)\*

modem in slot in some models

#### two 15-pin analog D-sub connectors, dual head support SATA disk 80GB, 160GB, or 250GB, SATA300 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in ICH7 One SATA cable (one 1-drop to disk), 2 SATA connectors on planar Some: 48X-20X4 CD-ROM SATA controller SATA cables EIDE CD Some: 16X-48X Max<sup>4</sup> DVD-ROM, single-layer Some: 48X/32X/48X/16X Max<sup>11</sup> CD-RW/DVD-ROM Combo EIDE DVD EIDE Combo EIDE DVD±RW Some: DVD and CD burner, Super Multi-Burner DL (41N5581) Enhanced IDE, ATA-100, integrated in I/O Controller Hub (ICH7) One 2-drop EIDE • Power-on password EIDE controller cable to optical, 2 EIDE connectors on planar FIDF cables Diskette drive None Media reader Some: 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0 Chipset Intel 946GZ Express Chipset, 82946GZ Graphics Memory Controller Hub (GMCH), 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1

PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech® IT8718 Super I/O

Front ports Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), Rear ports

mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] Rear audio ports

High Definition (HD) Áudio, AD1986A codec, SoundMÁX® software External speakers Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo One internal beeper

Ethernet Gigabit ethernet on systemboard, Broadcom® BCM5786 (PHY/MAC), PCIe x1 Some: 56K10 V.90 data/fax soft modem, PCI adapter Modem

[Pref] 104-key Preferred Pro USB Keyboard, black Keyboard Enhanced Performance USB Keyboard, 2-port USB 2.0 hub, black (one of following)

Optical Wheel Mouse (USB only), 400 dpi, black Mouse

Power supply 250 watts, universal, manual switch

Preload with Windows XP Home<sup>12</sup> Microsoft® Windows® XP Home Edition

Preload with Windows XP Professional<sup>12</sup> Microsoft Windows XP Professional

Preloaded<sup>5</sup> (all OSes; some listed)

- Lenovo Càre<sup>SM</sup> tools
  - Rescue and Recovery™
  - System Update

Audio

Beeper

- Password Manager
- Norton Internet Security™ (90 days of virus definitions)
  • PC-Doctor™ (diagnostics)

- · Google Desktop
- Diskeeper® Lite
- Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- AOL and EarthLink (XP Home models only)
  Roxio Digital Media LE (combo, DVD±RW)
  InterVideo WinDVD (DVD, combo, DVD±RW)

- InterVideo WinDVD Creator (DVD±RW)

License - CD not included (all OSes) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client (Notes client not supported on XP Home)

#### **SECURITY**

- · One lock to secure both cover and entire system to fixed object:
- Padlock loop (in rear for opt padlock)
  No security slot (in rear for optional Kensington Microsaver cable)
- No keylock

- Administrator password
- Boot sequence control Boot without keyboard, mouse, diskette
- Unattended start mode
- Hard disk I/O control Serial port I/O control
- Parallel port I/O control

#### LIMITED WARRANTY<sup>1</sup>

- 1-year parts and labor
- International Warranty Service9
- Customer Replaceable Unit (CRU) parts are available with onsite service3, . 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options (in eligible locations):7
- 2-year LOR 9x5, Next Business Day (Lenovo Care<sup>SM</sup> part number 41K0541) **3-year LOR 9x5, Next Business Day**
- (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6

  1-year LOR 9x5, Next Business Day
- (Lenovo Care part number 41K0543)

  2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)

  ⇒ Lenovo Care services at
- http://lenovo.com/warranty 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period<sup>1</sup> 800-IBM-SERV (426-7378)

Slot x Type-mod bay	Intel Processor	GHz cad		Memory		SATA disk	EIDE optical	Graph		External		Vista logo	Avail date
7393-F1U 4x4 Per 7393-G1U 4x4 Per 7393-G2U 4x4 Per 7393-GDU 4x4 Per 7393-GEU 4x4 Per 7393-5BU 4x4 Per 7393-5BU 4x4 Per 7393-3GU 4x4 Per 7393-3GU 4x4 Per 7393-6GU 4x4 Per 7393-6GU 4x4 Per 7393-6HU 4x4 Per 7393-8HU 4x4 Co 7393-8HU 4x4 Co	ntium 4 641 ntium 4 641 ntium D 915 ntium D 915 ntium D 915 ntium D 925 ntium D 925 ntium D 925 ntium D 925 ntium D 945 re 2 Duo E4300 re 2 Duo E4300	3.00 2ME 3.20 2ME 3.20 2ME 3.20 2ME 2.80 2x2 2.80 2x2 3.00 2x2 3.00 2x2 3.00 2x2 3.40 2x2 3.40 2x2 3.40 2x2 1.80 2ME 1.80 2ME	Single Single Single Single MB Dual	1GB 1GB 1GB 1GB 1GB 1GB	9-in-1 9-in-1 9-in-1	160GB 160GB 250GB 250GB 80GB 250GB 80GB	Combo DVD±F DVD±F Combo DVD±F DVD±F Combo DVD±F Combo DVD±F	RW GM O GM RRW GM O GM O GM O GM RRW GM RRW GM RRW GM RRW GM O GM RRW GM RRW GM O	A A A Yes A Yes A Yes A Yes A A Yes	Spkrs Spkrs Spkrs Spkrs	Business Business Business Business Business Home Basic Business Home Premiur Home Basic Business Home Premiur Business Home Premiur Business Home Premiur Business	Basic Premium Premium Premium	Jan 07 Jan 07
Positioning Processor	Excellent performintel® Pentium® Intel 64 Technolo Execute Disable Inte Pentium Dintel 64 Technolo 800MHz system Intel Core™ 2 Dintel 64 Technolo 800MHz system	4 Procesing, Hyper Bit, 800M Processory, Execution Bus, and 2 uo Procesory, Executions, and 2 uo Procesory, Executions, and 2	sor 631 or Threading Hz system r 915, 925 te Disable 2x2MB L2 ssor E430 te Disable 2MB share	641 with g technol bus, and , or 945 Bit, EIS cache or 0 with du Bit, EIS	ogy, d 2MB   with <b>du</b> T, r ual-core T, che	L2 cache ıal-core, e,		<ul><li>7.1" V</li><li>180m</li><li>20.1 t</li><li>Hand</li></ul>	V X 17. m W X o 22.5 le on to bscrew	5" D X 15 445mm I lb (9.1 to p front for remo	O X 392mm H	entsd	otical ② ③ isk
Memory - std/max <sup>6</sup> Memory	Processor and L 512MB or 1GB s PC2-4200 533Mi dual-channel cap Some: standard Some: (italics) s	std / 4GB   Hz DDR2 / pable / two	nax non-parity 240-pin D 512MB or	/ / CAS la DIMM soo 1GB) in	atency ckets /	4 / unbuf cket;		Bay ② S Bay ③ S	5.25", 1 3.5", 1		access, ope access, opt	diskette or or opt medi	a reader
Graphics	Intel Graphics Integrated graphic (up to 256MB) / 4	Media Aco ics in 9460 400MHz /	Slot 2: Slot 3: Slot 4:	half-len half-len half-len	gth, full-h gth, full-h gth, full-h	eight, PCI Expeight, PCI Expeight, 32-bit Peight, 32-bit Peight, 32-bit Peight, 32-bit Peight,	ress x1 CI 2.3 (5v)	5w max)					
SATA disk SATA controller SATA cables EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Supports optional ADD2 adapter but not dual independent display  ATA disk ATA controller ATA cables DE DVD DE Combo DE DVD±RW DE Controller DE cables Skette drive  Slot 4:  * mode  *											RITY  oth cover ar  l object:  ar for opt pa  rear for opti  aver cable)	dlock)
Front ports Rear ports		ics Memoi introller Hu 3, Low Pir crophone ne 9-pin so	y Controlle b (ICH7) f Count int (mono, 3.8 erial, paral	for SATA erface / I 5mm), he lel (25-pi	300, AT TE Tec adpho n), keyl	A-100 EI h® IT871 ne (stere	8 Super o, 3.5m	· I/O	ss x1,	<ul><li>Admin</li><li>Boot s</li><li>Boot w</li><li>Unatte</li><li>Hard c</li><li>Serial</li></ul>	-on password istrator password equence contrituted by the control is known to be control port I/O control po	ol d, mouse, c de l	liskette
Rear audio ports Audio External speakers Beeper Ethernet Modem Keyboard Mouse Power supply	mouse (PS/2), ethernet (RJ-45), monitor (DB-15)  Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) Audio / AD1986A codec / SoundMAX® software  steeper										LIMITED WA r parts and lab national Warrar omer Replacea are available wi - 5 pm, Mon - F ding holidays, ousiness day r	RRANTY <sup>1</sup> or ity Service <sup>9</sup> ble Unit (CR th onsite se iri coverage	rvice <sup>3</sup> ,
Preloaded operating system¹² - Some: Microsoft® Windows® Vista™ Home Basic Edition (32-bit) - Some: Microsoft Windows Vista Home Premium Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (32-bit)  Preloaded applications⁵ (all OSes; only some listed) • Lenovo Care⁵™ Tools - Rescue and Recovery™ - System Update - Password Manager • Norton Internet Security™ • PC-Doctor™ (diagnostics)  • Diskeeper® Home • Corel® Small Business Center™ with WordPerfect® Office 12 • QuickBooks Financial Center • AOL and EarthLink (Vista Home Basic at Home Premium models only)  License - CD not included (all OSes) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client  DVD (all OSes) - Windows Anytime Upgrade DVD include upgrade to different Vista versions for a									or	<ul> <li>Onsit         (in eli</li></ul>	de service upgr gible locations ear LOR 9x5, N hovo Care <sup>SM</sup> par ear LOR 9x5, N hovo Care part r warranty main hovo Care part ear LOR 9x5, N hovo Care part r vo Care service '/Ienovo.com/w 4 toll-free supp s during the w BM-SERV (426-	ade options i):7 ext Busines t number 41 ext Busines number 41K( enance ser number 41K( ext Busines number 41K( ext Busines number 41K( ext Gusines number 40K( ext Gusines nu	s Day (K0541) s Day (S542) vices: 6 ss Day (0543) ss Day (0543) ss Day (0544)

Slot x	AMD	011-	L2	0	M	Media	SATA		IDE			External		Dualaad	Avail
7387-24U 4x4 A 7387-26U 4x4 A 7387-27U 4x4 A 7387-3BU 4x4 A 7387-41U 4x4 A 7387-44U 4x4 A	Athlon 64 3500+ Athlon 64 X2 3800+ Athlon 64 X2 3800+ Athlon 64 X2 3800+ Athlon 64 X2 3800+ Athlon 64 X2 4000+ Athlon 64 X2 4200+	2.20 2.00 2.00 2.00 2.00 2.10 2.20 2.20	2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB	Single Single Dual Dual Dual Dual Dual Dual Dual	512MB 1GB 1GB 512MB 512MB 1GB 512MB	9-in-1 9-in-1 9-in-1	80GB 160GB 160GB 160GB 250GB 250GB 80GB 160GB 250GB 80GB	DV Cor Cor DV DV DV Cor DV	mbo mbo D±RW D±RW D mbo D±RW	NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA	A Yes A Yes A Yes A Yes	Spkrs Spkrs Spkrs	Pref Pref EP Pref Pref Pref Pref Pref	XP Pro XP Pro XP Pro XP Hom XP Hom XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	e Sep 06 Sep 06 May 07 Sep 06
Positioning Processor  Implementation  Memory - std/ma Memory	Excellent perform AMD® Athlon™ 6 AMD64, integrate virtualization tech AMD Athlon 64 ) integrated L1/L2 over tech Processor in 940- x8 512MB or 1GB st PC2-4200 533MH dual-channel capi 512MB models: 1GB model 44U: 1GB models 26U/	4 3500d DDR: nology (2 3800) cache, / nology pin PG d / 4GB z DDR: able / tv	+ with sin 2 memory or 0+, 4000+ AMD64, in A packag 3 max 2 / non-pa wo 240-pi ne socket ne socket	rgle-control y control y control y control y 4200 ntegrat ge in So arity / C n DIMM t used; t used;	re, integroller, and +, or 440 ed DDR: ocket AM CAS later M socket	00+ with 2 contro 12 ncy 4 / u s /	n <b>dual-c</b> e oller, and unbuffere	ore,	• 7.1" • 180r • 20.1 • Han • Tool Bay ① Bay ②	iness bla W X 17, mm W X to 22.5 dle on to mbscrev less ent	5" D X 445mn Ib (9.1 op front v for rer y 1.6" hig 1.6" hig	n D X 392 to 10.2 kg	emm H  ide cov  s, st s, ot s, st	vers	
SATA disk SATA controller SATA cables	NVIDIA® GF 6100 uses main memoloptional PCI Expr 80GB, 160GB, or Serial ATA / 300M One SATA cable (	/ integ ry / 425 ess x16 <b>250GE</b> B/sec S one 1-c	rated graph MHz / on adapter J / SATA3 SATA300 drop to dis	phics of e 15-pi can su 00 720 / integr sk) / 2	controller in analog upport two 00 rpm rated in s SATA co	in C51 g D-sub o moni south be	g chipse connectors	tor /	Slot 1 Slot 2 Slot 3 Slot 4	: half-ler : half-ler : half-ler : half-ler	ngth,full ngth,full ngth,full ngth,full	-height, F -height, 3	ess, st PCI Exp PCI Exp 32-bit P 32-bit P	oress x16	(75w max)
EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Some: 16X-48X Some: 48X/32X/- Some: DVD burn Enhanced IDE / A south bridge One 2-drop EIDE None Some: 9-in-1 me	48X/162 er / Sup TA-133 cable t	X Max <sup>11</sup> C per Multi- c / integration	D-RW Burner ted in N	//DVD-R0 DL Driv NVIDIA N E conne	OM Cor e (41N MCP51 ctors o	5581) n planar	al U	SB 2.0		and padlock) ptional				
Front ports Rear ports Rear audio ports Audio External speaker Beeper	NVIDIA GeForce' support for PCI E NVIDIA MCP51 s Low Pin Count int Two USB 2.0, mic Four USB 2.0, on mouse (PS/2), etf Microphone-in (m High Definition (H S Some: desktop s One internal beer	xpress outh bri erface rophon e 9-pin nernet ( ono), lii D) Aud beakers	x1 slot, P idge for S / Winbond ie (mono, serial, pa RJ-45), n ne-in (ste io / AD19	CI Exp SATA30 d® W83 3.5mm rallel (inonitor reo), lii	oress x16 0, ATA-1 3627EHC n), headp 25-pin), (DB-15) ne-out (sodec / Scodec / Scodec	S slot, P 33 EID S Super phone ( keyboa ttereo)	CI 2.3 sl E, USB, I/O stereo, 3 rd (PS/2 all 3.5m X® softv	3.5m ), m]	m)	go	<ul><li>Powe</li><li>Adm</li><li>Boot</li><li>Boot</li><li>Unat</li><li>Hard</li><li>Seria</li></ul>	keylock er-on pas inistrator sequenc without k tended st I disk I/O al port I/O Illel port I/	password control control	rol rd, mouse de ol	, diskette
Ethernet Modem Keyboard (one of following Mouse	Gigabit ethernet of Some: 56K <sup>10</sup> V.90  [Pref] 104-key Pref) [EP] Enhanced Poptical Wheel Mo	on plana data/fa eferred erforma use (U	ax soft me Pro USB Ince USB SB only),	odem / Keybo Keybo 400 dp	PCI ada ard, blac ard, 2-p	apter k				1189		ear parts	and lab		
Microsoft® Wind - Disk-to-Disk F protected are:  Preload with W Microsoft Windo - Disk-to-Disk F protected are:  Preloaded⁵ (all • Lenovo Care⁵ - Rescue and - System Upc - Password M • Norton Interno	lindows XP Professions XP Professions XP Professional Recovery (in hidden a) OSes)  M tools I Recovery™ late lanager et Security™ rus definitions) diagnostics) er	ion sional <sup>12</sup>	• F • [ • ( • ( • / •   •   •   •   •   •   •   •   •   •	Picasa Diskeep Corel® WordPe Corel P AOL an Roxio E nterVic nterVic cense Lotus® Lotus N client n cesso cessor c Guid	from Go per® Lite Small Bl erfect® O hoto Alb d Earthl jigital Me deo WinE deo WinE - CD not SmartSl jotes® Si ot suppo ries o e in pdf i http://ler	usiness ffice 12 um StaLink (XFedia LE) DVD (DVD) Cruinclude include itee Mitand-alderted on the state of the	errer™ 6 P Home (combo VD, comleator (D\ ed (all Osternium one Clier XP Hon et .com/ace	mod , DV bo, [ /D±l Ses) and at (N ne)	els onl D±RW DVD±R RW) otes	) W)	Cus pari 8 ar exc nex ons (in 6 2- (L 2 Len Len 24x issu	stomer Resare avai m - 5 pm, luding ho t busines site service eligible lo year LOR enovo Care year LOR enovo Care enovo Care enovo Care enovo Care enovo Care enovo Care covo Care	placea lable w Mon - I lidays, s day r e upgr cations 9x5, N e part y main t 9x5, N e part t 9x5, N e part t servic com/w e suppr g the w	esponse tade options):7 ext Businet number 4 ext Businenumber 41 tenance slext Businenumber 47 lext Businenumber 47 lext Businenumber 41 es at farranty port for wa	cRU) service <sup>3</sup> , ge cime ns  ess Day 41K0541) ess Day K0542) ervices: <sup>6</sup> less Day lK0543) less Day K0544)

Slot x	AMD		L2			Media	SATA	EID		Integrate	ed Mo	- Ext	ernal	Vista	Vista	a	Avail
Type-mod bay	Processor		cache		Memory	reader	disk	optic	al	graphic	s de	m spe	akers	preload	logo	)	date
7387-9FU 4x4 Se 7387-9HU 4x4 Se 7387-9HU 4x4 Atf 7387-2BU 4x4 Atf 7387-2KU 4x4 Atf 7387-2MU 4x4 Atf 7387-48U 4x4 Atf 7387-48U 4x4 Atf 7387-49U 4x4 Atf	mpron 3400+ mpron 3400+ nlon 64 X2 3800+ nlon 3800+ nlon 3800+ nlon 3800+ nlon 64 X2 4200+ nlon 64 X2 4200+	1.80 1.80 2.00 2.40 2.40 2.40 2.20 2.20 2.20	512KB 512KB 512KB 2x512KE 2x512KE 2x512KE	Single Single B Dual Single Single Single B Dual B Dual B Dual	512MB 512MB 1GB 1GB 1GB 1GB 1GB 1GB	9-in-1 9-in-1	80GB 80GB 160GE 80GB 160GE 80GB 160GE	DVE Com Com Com B DVE B DVE Com B DVE	nbo nbo nbo D±RV D±RV nbo D±RV	NVIDI NVIDI NVIDI NVIDI NVIDI V NVIDI NVIDI V NVIDI V NVIDI	A Ye A Ye A A A A A	s Sp	okrs okrs	Home Bas Business Home Bas Home Bas Business Business Business Business Business Business Business Business	Premsic Basic Basic Basic Prem Prem Prem Basic Basic	nium J c J nium J nium J nium J	lan 07 lan 07 lan 07 lan 07
Positioning	Excellent perform	nance	at compe	titive pri	ices				Tow	/er							_
Processor	AMD® Sempron¹ AMD64, and inte AMD Athlon™ 64 AMD64, integrate virtualization tech AMD Athlon 64 L1/L2 cache, AM virtualization tech	™ 3400 grated 4 3800 ed DDI nnolog X2 380 D64, in	0+ with si DDR2 m 0+ with sin R2 memon y or 00+ or 42 ntegrated y	ngle-cor emory c ngle-cor ry contr 00+ with DDR2 (	re, integrecontroller e, integra oller, and n dual-controller	r or ated L1 d ore, into r, and	/L2 cacl		• Bu • 7.7 • 18 • 20 • Ha • Th	usiness I 1" W X 1 80mm W 0.1 to 22 andle on	7.5" X 44 .5 lb ( top f ew fo	D X 1 5mm (9.1 to ront	5.4" D X o 10.	392mm H		diske	tte
Implementation	Processor in 940	<u>'</u>		age in So	ocket AM	12											
Memory - std/max Memory	S12MB or 1GB s PC2-4200 533MF dual-channel cap 512MB models: models 48U/49U/ models 9GU/2JU	<b>dz DDI</b> pable / /4AU:	72 / non- two 240- one one	oin ĎIMI e socket e socket	M socket used; used (10	ts / GB per	socket);		Bay Bay Bay		", 1.6 1" 1"	i" hiğh high, high,	n, acc acc no	cess, o		diske reade	r
Graphics	NVIDIA® GF 6100 uses main memo optional PCI Exp	ry / 42	25MHz / c	ne 15-p	in analo	g D-suk	conne		Slot Slot	2: half-l 3: half-l	ength ength	n,full-l n,full-l	heigh heigh	nt, PCI Exp nt, PCI Exp nt, 32-bit P nt, 32-bit P	oress x1 CI 2.3 (	5v)	w IIIax
SATA disk SATA controller SATA cables EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	80GB, 160GB, o Serial ATA / 300M One SATA cable Some: 16X-48X Some: DVD burr Enhanced IDE / / One 2-drop EIDE None Some: 9-in-1 me	MB/sec (one 1 Max <sup>4</sup> /48X/1 ner / S ATA-13 cable	c SATA30 -drop to o DVD-ROI 6X Max <sup>11</sup> uper Muli 33 / integr to optica	0 / integ disk) / 2 M / singl CD-RW ii-Burne ated in I	rated in s SATA co e-layer / //DVD-Ro r DL Driv NVIDIA I DE conne	onnecto EIDE OM Co ve (41N MCP51 ectors o	rs on plants mbo 5581) south book n plana	oridge r		odem in	• (	One loentire Padi	ock to syst lock secur singt	SECUI o secure b em to fixed loop (in re- rity slot (in on Micros	oth cove d object: ar for op rear for	: ot padl optior	ock)
Chipset	NVIDIA GeForce support for PCI E NVIDIA MCP51 s Low Pin Count in	e® 6100 xpressouth b	C51g cl s x1 slot, oridge for	hipset / PCI Exp SATA30	C51g incoress x16	cludes 6 slot, F 33 EID	graphics PCI 2.3 : PE, USB	s cont	trolle		• i	Admir Boot s Boot v	nistra sequ witho	password utor password ence control out keyboa d start mo	ol d, mous	se, dis	kette
Front ports Rear ports Rear audio ports Audio External speakers	Two USB 2.0, mic Four USB 2.0, or mouse (PS/2), et Microphone-in (m High Definition (H Some: desktons	ne 9-pi herne nono), HD) Au	n serial, p t (RJ-45), line-in (st Idio / AD1	parallel ( monitor ereo), li 986A co	25-pin), (DB-15) ne-out (sodec / So	keyboa ) stereo) oundM/	ird (PS/2 [all 3.5n AX® soft	2), nm] tware	ŕ	logo	•	Hard ( Serial	disk port	I/O control I/O control ort I/O cont	ol .		
Beeper Ethernet Modem	One internal bee Gigabit ethernet of Some: 56K <sup>10</sup> V.9	per on pla	nar / Broa	adcom®	` BCM578	88 / PCI	,,	,		O			ar pa	MITED WA rts and lab	or		
Keyboard Mouse Power supply	104-key Preferred Optical Wheel Mo 250 watts / unive	ouse (	USB onĺy	), 400 d <sub>l</sub>								Custo parts 8 am	omei are a - 5 p	r Replacea available w om, Mon - I	ble Unit ith onsit ri cove	(CRU e serv	
Home Basic Ed - Some: Microso Business Edition	oft® Windows® Vist dition²o (32-bit) oft Windows Vista on²o (32-bit) cations (all OSes Tools Recovery™ ate anager t Security™ us definitions) iagnostics) r		• • L -	with Wo QuickE AOL ar only) .icense Lotus® Lotus N Accesson acc Guice	Small BroordPerfebooks Firnd Earthl - CD not SmartSr Notes® Spries ries on Cle in pdf thttp://le	ct® Offinancial Link (Vi t include uite® Mi tand-al  )-J sheel lenovo	ce 12 Center ista Hor ed (all C illenniur one Clie et com/ae	ne Ba OSes) n and ent	ories		\$	next Onsi (in el 2-y (Le 3-y (Le Post 1-y (Le Leno http://issue	busii te se igibli ear L novo ear L novo rear I novo ovo C //lend	n holidays, ness day r revice upgr le locations OR 9x5, N Cares™ par OR 9x5, N Care part lo Care part Care part lare servic core.com/w l-free supgring the w SERV (426	esponse ade opt so:? ext Bus t number ext Bus number lext arranty oort for varranty	iness er 41K0 iness 41K05 e servi siness 41K05 41K05	Day 0541) Day 42) ces: <sup>6</sup> Day 543) Day 44)

Slot x Type-mod bay	AMD Processor GHz of	L2 cache Core Memo	Media ry reader	SATA disk	EIDE optica	Integrated I graphics				Vista logo	Avail date	
7387-3CU 4x4 Atl 7387-3DU 4x4 Atl 7387-3EU 4x4 Atl 7387-59U 4x4 Atl 7387-5AU 4x4 Atl 7387-63U 4x4 Atl 7387-64U 4x4 Atl	Alon 64 X2 4400+ 2.30 2 Alon 64 X2 4000+ 2.10 2 Alon 64 X2 4000+ 2.10 2 Alon 64 X2 4000+ 2.10 2 Alon 64 X2 4400+ 2.30 2 Alon 64 X2 4400+ 2.30 2 Alon 64 X2 4800+ 2.50 2	2x512KB Dual 1G 2x512KB Dual 1G	3 9-in-1 3 9-in-1 3 3 3 3 3 3 8 9-in-1	80GB 160GB 250GB 160GB 250GB 80GB 160GB	Combo DVD±R\ DVD±R\ Combo DVD±R\ Combo DVD±R\	W NVIDIA NVIDIA W NVIDIA W NVIDIA NVIDIA NVIDIA W NVIDIA W NVIDIA W NVIDIA		Spkrs	Home Prem Business Business Home Prem Business Business Business Business Home Prem	Basic Basic Basic Basic Basic Basic Basic	May 07 May 07 May 07 May 07 May 07 May 07 May 07	
Destinate a												
Positioning Processor Implementation Memory - std/max Memory		000+, 4400+, or 48 64, integrated DDR: 6A package in Socl 22 / non-parity / CA	00+ with 2 controlled set AM2 S latency sockets / per socket	er, and  4 / unbu	ffered /	• Business b • 7.1" W X 17 • 180mm W 19 • 20.1 to 22.1 • Handle on • Thumbscre • Toolless en	7.5" D X 445 5 lb (9 top fro w for	X 15.4" mm D X 9.1 to 10 ont	H 392mm H .2 kg)		optical ② diskette disk	
Graphics	NVIDIA® GF 6100 / integ uses main memory / 425 optional PCI Express x1	grated graphics cor 5MHz / one 15-pin	troller in analog D	C51g ch sub con	nector /	Bay ① 5.25", Bay ② 5.25", Bay ③ 3.5",	1.6"	high, ac	cess, op	d optical en d or opt d	iskette	
SATA disk SATA controller SATA cables EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	80GB, 160GB, or 250Gi Serial ATA / 300MB/sec One SATA cable (one 1- Some: 48X/32X/48X/16 Some: DVD burner / Su Enhanced IDE / ATA-13 One 2-drop EIDE cable	SATA300 / integrat drop to disk) / 2 SA SX Max <sup>11</sup> CD-RW/D iper Multi-Burner D 3 / integrated in NV to optical / 2 EIDE	planar ) n bridge nar	Bay ④ 3.5", Slot 1: half-le Slot 2: half-le Slot 3: half-le * modem in s	ength, ength, ength, ength,	full-heig full-heig full-heig full-heig	access, sto ht, PCI Exp ht, PCI Exp ht, 32-bit Po ht, 32-bit Po	ress x16 ress x1 CI 2.3 (5\	(75w max) /)			
Chipset	Some: 9-in-1 media rea  NVIDIA GeForce® 6100 support for PCI Express NVIDIA MCP51 south bit Low Pin Count interface	C51g chipset / C5 x1 slot, PCI Expre ridge for SATA300,	1g includ ss x16 slo ATA-133	es graph ot, PCI 2 EIDE, U	nics contro .3 slots /	SECURIT						
Front ports Rear ports	Two USB 2.0, microphor Four USB 2.0, one 9-pin mouse (PS/2), ethernet	n serial, parallel (25	-pin), key			nm)  Kensington Microsaver cable)  No keylock  Power-on password						
Rear audio ports Audio External speakers Beeper Ethernet Modem	Microphone-in (mono), li High Definition (HD) Auc Some: desktop speaker One internal beeper Gigabit ethernet on plan Some: 56K¹0 V.90 data/s	dio / AĎ1986Á codo rs, 2-piece, 6 watts nar / Broadcom® BC	ec / Soun (3 watts e :M5788 /	dMAX® s each), bla PCI 2.3 /	oftware ack, Lenc	Ü	• Bo	oot sequoot withous mattende ard disk erial por	ator passwo ence contro out keyboard d start mod I/O control t I/O control ort I/O control	ll d, mouse e	, diskette	
Keyboard Mouse Power supply	104-key Preferred Pro U Optical Wheel Mouse (U 250 watts / universal / m	JSB only), 400 dpi,						LII	MITED WAR	RANTY		
Home Premiur - Some: Micros Business Edition	oft® Windows® Vista™ n Edition (32-bit) oft Windows Vista on (32-bit) cations⁵ (all OSes) Tools Recovery™ ate anager edia Center t Security™ us definitions) liagnostics) oft Windows® Vista oft Windows liagnostics) oft Windows liagnostics oft Windows oft Win	Corel® Sr with Word QuickBod AOL and only)  License - ( Lotus® Nr  DVD (all) Windows upgrade  Accessorie Accessorie Acc Guide Others at h	dPerfect® bks Finance EarthLink CD not incomes® Stan Anytime to difference so on O-J so n pdf lence	Office 12 cial Cent (Home Index (Home Inde	er Premium II OSes) Client DVD incersions for	luded for or a fee oriesguide		nternation custome warts are a sam - 5 paxcluding ext busionsite se in eligible 2-year I (Lenovo 3-year I (Lenovo 2-year (Leno	onal Warranger Replaceath and Marranger Repla	sy Service by Service Unit (0 h onsites of coverage sponse to the option of the option	cRU) service <sup>3</sup> , ge ime ns  ess Day 11K0541) ess Day K0542) ervices: <sup>6</sup> ess Day K0543) ess Day K0544)	

## Lenovo™ 3000 J100, J105, J110, J115 Accessories

Partial list of accessories supported on  Lenovo 3000 J100  Lenovo 3000 J105  Lenovo 3000 J110  Lenovo 3000 J115			
Memory SiS or VIA chipset types 8253, 8258 only: 512MB PC3200 CL3 NP DDR1 UDIMM 1GB PC3200 CL3 NP DDR1 UDIMM	73P2686 22P9272	Power and Cables Belkin 7-Outlet Surge Protector  Data/Video Projectors	31P7657
Intel or NVIDIA chipset types 8255, 7387, 739 512MB PC2-5300 CL5 NP DDR2 UDIMM 1GB PC2-5300 CL5 NP DDR2 UDIMM	93 only: 73P4983 ann 06/28/05 73P4984 ann 06/28/05		0037A05 ann 02/28/06 41N3040 ann 02/21/06
Optical 16X Max <sup>4</sup> DVD-ROM (black) 48X/32X/48X/16X Max <sup>11</sup> CD-RW/DVD-ROM Combo drive (black) Super Multi-Burner DL DVD±RW EIDE Drive	22P6950 73P3300 ann 04/06/04 41N5581 ann 05/30/06		6307BTN ann 01/16/07 9165AC6 ann 10/23/07 9227AD1 ann 10/23/07 9417HC2 ann 10/31/06 4439HB2 ann 10/23/07
Storage and removable storage 40GB Serial ATA150 Disk (7200 rpm) 80GB Serial ATA300 Disk (7200 rpm) 160GB Serial ATA300 Disk (7200 rpm) 250GB Serial ATA300 Disk (7200 rpm)	22P7185 09N4253 ann 05/19/03 09N4254 ann 05/19/03 41N3015 ann 01/24/06	ThinkVision L193p 19" LCD Monitor ThinkVision L194 Wide 19" LCD Monitor ThinkVision L220x Wide 22" LCD Monitor	4431HB2 ann 10/23/07 4434HB6 ann 10/23/07 4433HB2 ann 10/23/07
500GB Serial ATA300 Disk (7200 rpm) USB Portable Diskette Drive USB 2.0 Essential Memory Key 1GB USB 2.0 Essential Memory Key 2GB USB 2.0 Security Memory Key 1GB USB 2.0 Security Memory Key 2GB USB 2.0 Security Memory Key 4GB USB 2.0 Security Memory Key 4GB USB 2.0 CD-RW/DVD-ROM Combo II Drive	43R1990 ann 11/06/07 05K9276 ann 06/05/00 41U4940 ann 01/23/07 41U4944 ann 07/17/07 41U5118 ann 07/17/07 41U5120 ann 07/17/07 40Y8637 ann 01/05/06	ThinkVision USB Soundbar Kensington® Cable Lock from Lenovo Radial Arm  46 Compatible on selected Lenovo and Thi	40Y7616 ann 08/23/05 73P2582 ann 12/29/03 19K4464 ann 05/05/00 nkVision monitors.
USB 2.0 Portable 80GB Hard Disk USB 2.0 Portable 120GB Hard Disk USB 2.0 Super Multi-Burner Drive	41N8378 ann 04/17/07 41N8379 ann 04/17/07 41N5565 ann 01/23/07	Other accessories at http://lenovo.com/acc	
<b>Graphics</b> <i>J110 and J115 Tower models support up to 7</i> None	5 watt max:	Need to buy accessories no longer markete www.itxchange.com/lenovo for the Options (	
<b>Keyboard</b> Preferred Pro USB Keyboard Preferred Pro Full Size PS/2 Keyboard Enh Perf Wireless Keyboard and Mouse	73P5220 ann 06/21/05 31P7415 ann 06/04/02 73P4067 ann 12/06/04	Lenovo Care™ maintenance services	
Mouse USB Optical Wheel Mouse Optical 3-Button ScrollPoint® Mouse Lenovo Laser Mouse (USB, PS/2)	06P4069 ann 05/21/03 31P7405 ann 08/27/02 41U3074 ann 01/23/07	3-year Lenovo Onsite Repair 9x5, Next Busi Post-warranty maintenance services: 6 1-year Lenovo Onsite Repair 9x5, Next Busi	ness Day 41K0542 ness Day 41K0543
Multimedia USB 2.0 Lenovo Multimedia Headset USB 2.0 Lenovo Webcam	40Y8518 ann 06/27/06 40Y8519 ann 08/29/06		-

Slot x	Intel		1.2			Madia	CATA	CAT	^^			Evternel		Avail			
Type-mod bay	Intel Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	Media reader	SATA disk	SAT/ optic		Graphi	cs Modem	External speakers	Preload	Avail date			
9690-03U 4x4 Ce 9690-5GU 4x4 Pe 9690-01U 4x4 Pe 9690-02U 4x4 Pe 9690-6EU 4x4 Pe 9690-7NU 4x4 Co 9690-27U 4x4 Co 9690-28U 4x4 Co 9690-29U 4x4 Co	ntium E2140 ntium E2140 ntium E2140 ntium E2160 ore 2 Duo E4400 ore 2 Duo E4500 ore 2 Duo E4500	1.60 1.80 2.00 2.20 2.20	512KB 1MB 1MB 1MB 1MB 2MB 2MB 2MB 2MB 2MB	Single Dual Dual Dual Dual Dual Dual Dual Dual	512MB 512MB 1GB 1GB 512MB 512MB 512MB 1GB 1GB	None None None None None None None	80GB <sup>2</sup> 80GB 80GB 160GB 80GB 80GB 80GB 80GB 160GB	DVD DVD DVD Com	) nbo )±RW ) ) )	GMA GMA GMA	None None None None None None None None	None None None None None None None None	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	Oct 07 July 07 Oct 07 Oct 07 July 07 July 07 Nov 07 Nov 07 Nov 07			
Positioning Processor  Implementation	Excellent performance of the last performance of the	Procestogy, Excache of Dual-C 64 Technology, and Duo Procestogy of the Control of	ssor 42 ecute D r fore Pro hnology nd 1MB ocessor hnology nd 2MB e in FC	o with so isable Executes Shared Shar	ingle-core Bit, 800Mb E2140 o te Disable I L2 cache or E4500 te Disable I L2 cache n LGA775	Hz bus, r <b>E2160</b> e Bit, EIS e or I with e Bit, EIS e 5 socket	ST, ST,	•	6.9"W 175m 22.0 Hand Toolle Toolle optica Toolle	V X 16.  Im W X  Ib (10.0  Ile on to  ess cov  ess dist  al drive  ess ada	op front ver removal k, diskette d removal apter retenti	4"H X 410mm H rive, on		optical ② 9-in-1 disk			
Graphics SATA disk		-channe andard i <b>Media</b> nics in 9 og D-su al ADD:	el capab memory <b>Acceler</b> 945GC, ub conne 2 adapte	le, two in one ator 95 uses m ector, er but n	240-pin D socket; or 60 (GMA S ain memo	olMM some socker 1950), 1950), 1950)	ckets; et available o 256MB),	e BBBBSSSSS	Bay 2 Bay 3 Bay 4 Blot 1: Blot 2: Blot 3:	5.25", 3.5", 3.5", half-lei half-lei		ccess, ccess, co access, so access, so ght, PCI Exght, PCI Exght, 32-bit	press x16 press x1 PCI 2.3 (5)	liskette sk (75w max) /)			
SATA controller SATA DVD SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	Serial ATA, 300 four SATA conn. Some: DVD-RC Some: CD-RW. Some: Super N Enhanced IDE, 1 EIDE connect None None	Slot 3: Slot 4: Slot 4: Slot 3: Slot 4: Slot 4: Slot 3: Slot 4: Slot 4: Slot 3: Slot 4: Slot 4										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)  • Administrator password  • Boot sequence control  • Boot without keyboard, mouse, diskette					
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet	SATA300, ATA- ITE Tech® IT87' Two USB 2.0, m Four USB 2.0, c mouse (PS/2), Microphone-in ( High Definition None Internal mono s 10/100 etherne	nicropho nicropho ne 9-pi etherne mono), (HD) au	PE, PCI I er I/O one (mo in serial, t (RJ-45 line-in ( udio, AD	no, 3.5r , paralle ), moni stereo) 1988A	mm), head mm), head el (25-pin) tor (15-pir , line-out codec	2.3, USE dphone , keyboan)	S, LPC bus (stereo, 3. ard (PS/2),	5mm)	)		• Serial po • Parallel p    1-year p  Internat  Custom	Limited Wearts and la	rol /arranty¹ bor nty Servic able Unit (0	CRU)			
	None  104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black 280 watts, universal, manual switch  Indows XP Professional   • Diskeeper® Home • Corel® Small Business Center™ with										8 am - 5 excludir next bus Onsite s (in eligil	e available v pm, Mon - ng holidays siness day service upg ble location r LOR 9x5,	Fri coverage, response to rade options): <sup>7</sup>	ge time ns			
Preloaded <sup>5</sup> • Lenovo Care <sup>5M</sup> • Rescue and • System Upda • Password Ma • Norton Interne (90 days of viru • PC-Doctor <sup>TM</sup> (c • Adobe <sup>®</sup> Reade • Windows Live <sup>TM</sup> • Windows Live • Picasa from G	Tools Recovery™ ate anager t Security™ us definitions) diagnostics) er Toolbar Search	onal	•	WordF Corel Micros	Perfect® O Photo Alb soft Office	ffice 12 um Star 2007 Tr	rter™ 6		D±RW)	)	(Lenov. 3-year (Lenov. 2-year (Lenov	vo Care <sup>sm</sup> par LOR 9x5, vo Care par irranty main r LOR 9x5, vo Care par LOR 9x5, vo Care par Care servionovo.com/v	art number Next Busir t number 4' Intenance s Next Busir t number 4' Next Busir t number 4' ces at varranty oll-free sup	41K0541) ness Day 1K0542) ervices:6 ness Day 1K0543) ness Day 1K0544)			

See footnotes for important warranty information
US models announced July 3, September 25, October 9, or November 6, 2007
US models withdrawn effective March 2008

Type-mod	Slot > bay	Intel Processor	GHz	L2 cache	Core	Memory	Media reader	SATA disk	SATA optical	Graphics	Mo- External dem speakers		Vista logo	Avail date
9690-85U 9690-58U 9690-59U	4x4 4x4 4x4	Celeron 420 Celeron 420 Pentium E2140 Pentium E2140	1.60 1.60 1.60	512KB 1MB 1MB	Single Dual Dual	512MB 512MB 1GB 1GB		80GB 80GB 80GB 160GB		GMA / GMA	Mod Spkrs	Home Basic Home Basic Business 32 Business 32	Basic Basic Basic Basic	July 07 July 07 July 07 July 07
9690-63U 9690-62U	4x4 4x4	Pentium E2140 Pentium E2160 Pentium E2160 Core 2 Duo E4300	1.80 1.80	1MB 1MB 1MB 2MB	Dual Dual Dual Dual	1GB 1GB 1GB 1GB	9-in-1 9-in-1 9-in-1	160GB 320GB	DVD±RW Combo DVD±RW Combo	GMA	Mod Spkrs	Home Premium Business 32 Home Premium Business 32	Basic	July 07 July 07
9690-7RU	4x4	Core 2 Duo E4400 Core 2 Duo E4400 Core 2 Duo E4400	2.00	2MB 2MB 2MB	Dual Dual Dual	1GB 1GB <i>1GB</i>	9-in-1		Combo DVD±RW DVD±RW			Business 32 Business 32 Home Premium	Basic Basic Premium	July 07 Nov 07 July 07

Positioning Processor	Excellent performance at competitive prices Intel® Celeron® Processor 420 with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz bus, and 512KB L2 cache or Intel Pentium® Dual-Core Processor E2140 or E2160 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E4300 or E4400 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache Processor and L2 cache in FC-LGA6 in LGA775 socket	Tower  Business black and silver bezel 6.9"W X 16.7" D X 16.14"H 175mm W X 424mm D X 410mm H 22.0 lb (10.0 kg) Handle on top front Toolless cover removal Toolless disk, diskette drive, optical drive removal Tolless adapter retention
Memory	<b>512MB</b> or <b>1GB</b> std / 2GB max <sup>8</sup> / <b>PC2-4200 533MHz DDR2</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets; <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. standard optical
Graphics (one of following)	Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory (up to 256MB), one 15-pin analog D-sub connector, supports optional ADD2 adapter but not dual independent display     NVIDIA® GeForce 7300LE, PCI Express x16 adapter,     128MB DDR2 memory, one DMS-59 connector for dongle with 15-pin analog D-sub and DVI-I connector, S-Video out for TV-out, dual head support	Bay      3.5", 1" high, no access, standard disk  Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1
	1.1	0 1

	dual fiedd Support
SATA disk SATA controller SATA DVD SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	80GB, 160GB, or 320GB, SATA300, 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in ICH7, four SATA connectors Some: DVD-ROM DL SATA150 16-48X Max <sup>4</sup> Drive (41N5618) Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619) Some: Super Multi-Burner DL DVD±RW SATA150 Drive (41N5620) Enhanced IDE, ATA-100, integrated in ICH7, 1 EIDE connector on planar None Some: 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0
Chipset	Intel 945GC Express Chipset; I/O Controller Hub 7 (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem	Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) audio, AD1988A codec Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo Internal mono speaker 10/100 ethernet, Realtek® RTL8101E, PCle x1 Some: 56K¹0 V.90 data/fax soft modem, PCl adapter
Keyboard Mouse Power supply	104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black 280 watts, universal, manual switch
Preloaded onera	ating system <sup>20</sup> • Network Magic™

- reloaded operating system<sup>20</sup> Some: Microsoft® Windows® Vista
  - Home Basic Edition (32-bit) Some: Microsoft Windows Vista
- Home Premium Edition (32-bit) Some: Microsoft Windows Vista
  - Business Edition (32-bit)

# Preloaded applications<sup>5</sup> (all OSes) • Lenovo Care<sup>5M</sup> Tools - Rescue and Recovery<sup>™</sup>

- System Update

  Password Manager

  Lenovo Multimedia Center

  Norton Internet Security<sup>TM</sup>

  Control Internet Security<sup>TM</sup>
- (90 days of virus definitions) PC-Doctor™ (diagnostics)

- Network Magic<sup>™</sup> Adobe<sup>®</sup> Reader Windows Live<sup>™</sup> Toolbar Windows Live Search
- Picasa from Google
- Diskeeper® Home
- Except Model 23U: Corel® Small Business Center™ with WordPerfect® Office 12
   QuickBooks Financial Center
- Microsoft Office 2007 Trial
- EarthLink Trial (Vista Home Basic, Vista Home Premium)

#### 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)
- Administrator password
- · Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- Parallel port I/O control

#### Limited Warranty<sup>1</sup>

- 1-year parts and labor
- ✓ International Warranty Service<sup>9</sup>
   ✓ Customer Replaceable Unit (CRU) Customer Replaceable Unit (LRU) parts are available with onsite service<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time Onsite service upgrade options (in plinible locations).<sup>7</sup>
- - (in eligible locations):7

     2-year LOR 9x5, Next Business Day
    (Lenovo Care<sup>SM</sup> part number 41K0541)

     3-year LOR 9x5, Next Business Day
  - (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6
  - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

ovo™ 3000 <b>.</b>	J205 (9686)	- XP Pro -	withdrawr						Person	al Systems	Reference	e (PSREF	
Slot x Type-mod bay	AMD Processor	L2 GHz cache	Core Memory	Media	SATA disk	SATA optical	Integrated graphics	Securit chip	y Modem	External speakers	Preload	Avail date	
9686-34U 4x4 At 9686-35U 4x4 At 9686-4EU 4x4 At 9686-4AU 4x4 At 9686-4BU 4x4 At 9686-59U 4x4 At 9686-56U 4x4 At 9686-65U 4x4 At	thlon 64 3800+	2.4 512KB 2.4 512KB 2.1 2x512KB 2.1 2x512KB 2.1 2x512KB 2.3 2x512KB 2.3 2x512KB 2.3 2x512KB 2.3 2x512KB 2.5 2x512KB	Single 512MB Single 1GB Dual 512MB Dual 1GB Dual 512MB Dual 512MB Dual 1GB Dual 1GB Dual 512MB Dual 512MB	None None None None None None None None	80GB <sup>2</sup> 80GB 80GB 80GB 160GB 80GB 160GB 320GB 80GB	DVD Combo DVD Combo DVD±R' DVD Combo DVD±R'	X1250 X1250 X1250 X1250 X1250 X1250 X1250 X1250 X1250 X1250 X1250 X1250	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	None None None None None None None None	None None None None None None None None		Aug 0'	
Positioning Processor    Positioning Processor   Excellent performance at competitive prices   AMD® Athlon™ 64 3800+ with single-core, integrated L1/L2 cache,     AMD64, integrated DDR2 memory controller, and virtualization technology or     AMD Athlon 64 X2 4000+, 4400+, or 4800+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology     Implementation   Processor in 940-pin PGA package in Socket AM2     Tower     Business black and silver bezel     6.9" W X 16.7" D X 16.1" H     175 mm W X 424mm D X 410mm H     22.0 lb (10.0 kg)     Handle on top front     Toolless cover removal     Toolless cover removal										② in-1 isk			
Memory	512MB or 1GB st non-parity, dual-cl Non-italics: stan	hannel capable,	four 240-pin DIN	/IM soci	kets;	opt	Toolless disk, diskette drive, optical drive removal     Toolless adapter retention						
Graphics	ATI™ Radeon™ X uses main memor one 15-pin analog optional PCI Expr	ry, g D-sub connect	tor,		ors	Bay 6	Bay ① 5.25", 1.6" high, access, standard optical open open optical open open optical open optical open open open optical open open optical open open open optical open open open optical open optical open open open optical open open open open optical open optical open open open optical optical open optical open optical o						
SATA disk SATA controller SATA DVD	80GB, 160GB or Serial ATA, 300Ml four SATA connect Some: DVD-RON	B/sec SATA300, ctors	integrated in SE			e, Slot Slot	1: half-leng 2: half-leng 3: half-leng 4: half-leng	th,full- th,full-	height, I height, (	PCI Expre 32-bit PCI	ess x1 (5v)	75w max	
SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	Some: CD-RW/E Some: Super Mu Enhanced IDE, A' None None	ulti-Burner DL D	VD±RW SATA15	0 Drv (4	11N5620			One lo	ity chip ock to se system	Security (see information both to fixed o	n cover ar bject:	nd	
Chipset	AMD 690G Chips PCI Express x1, F Winbond® W8362	PCI Express x16	6, PCI 2.3, USB,			-133 EID		- Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® Microsaver® cable) - Power-on password					
Front ports Rear ports	Two USB 2.0, mic Four USB 2.0, on mouse (PS/2), eth	e serial (9-pin),	parallel (25-pin),				5mm) • Administrator password						
Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Microphone-in (st High Definition (H	ereo), lìne-in (st ID) audio, ALC8 eaker on planar, Marve	ereo), line-out (s 88 codec ell® 88E8071, PC	le x1, V	Vake on	LAN®	:	<ul> <li>Unattended start mode</li> <li>Serial port I/O control</li> <li>Parallel port I/O control</li> </ul>					
Keyboard Mouse Power supply	104-key Preferred Optical Wheel Mo 280 watts, univers	d Pro USB Keyb ouse (USB only)	oard, black , 400 dpi, black ch				p.1011						

### Preloaded operating system<sup>20</sup>

- Microsoft® Windows® XP Professional

#### Preloaded applications<sup>5</sup> (only some listed)

- Lenovo Care<sup>sM</sup> Tools

   Rescue and Recovery<sup>™</sup>
  - System Update Password Manager
- Norton Internet Security™
- (90 days of virus definitions)

   PC-Doctor™ (diagnostics)

   Adobe® Reader

   Windows Live™ Toolbar

- Picasa from Google
   Diskeeper® Home
   Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- Microsoft Office 2007 Trial
- InterVideo WinDVD (combo, DVD, DVD±RW)

#### **Accessories**

1GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2001 43R2002
2GB PC2-5300 DDR2 UDIMM (TopSeller)	
Super Multi-Burner DL DVD±RW SATA Drive	41N5620
160GB Serial ATA300 Disk (7200 rpm)	09N4254
250GB Serial ATA300 Disk (7200 rpm)	41N3015
500GB Serial ATA300 Disk (7200 rpm)	43R1990
USB Portable Diskette Drive	05K9276
USB 2.0 Essential Memory Key 2GB	41U4944
USB 2.0 Security Memory Key 2GB	41U5119
USB 2.0 Security Memory Key 4GB	41U5120
USB 2.0 Portable 80GB Hard Disk	41N8378
USB 2.0 Portable 120GB Hard Disk	41N8379
USB 2.0 Super Multi-Burner Drive-LS	41N5565
Preferred Pro Full Size PS/2 Keyboard	31P7415
Wireless Kbd & Opt Wheel Mouse (via USB)	73P4067
USB 2.0 Lenovo Multimedia Headset	40Y8518
USB 2.0 Lenovo Webcam	40Y8519
ThinkVision® L193p 19" LCD Monitor	4431HB2
ThinkVision L194 Wide 19" LCD Monitor	4434HB6
ThinkVision L220x Wide 22" LCD Monitor	4433HB2
ATI Radeon HD 2400 XT 256MB	43R1962
Other accessories at http://lenovo.com/acce	

## Limited Warranty<sup>1</sup>

→ 1-year parts and labor
 → International Warranty Service<sup>9</sup>
 → Customer Replaceable Unit (CRU)
 parts are available with onsite service<sup>3</sup>,
 8 am - 5 pm, Mon - Fri coverage
 excluding holidays,

next business day response time Onsite service upgrade options (in eligible locations):7

- 2-year LOR 9x5, Next Business Day
- (Lenovo Care<sup>SM</sup> part number 41K0541) 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:<sup>6</sup>
   1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day14 toll-free support during the warranty period<sup>1</sup> via 800-426-7378

Type-mod	Slot x bay	AMD Processor	GHz	L2 cache	Core N	lemory	Media 8 reader			Integrated graphics				Avail date
9686-4CU	4x4 Ath	lon 64 X2 4400+	2.1	2x512KB	Dual	1GB	9-in-1	320GB	<b>DVD</b> ±RV			Spkrs	Business 32 Home Premium	
		lon 64 X2 4400+ lon 64 X2 4800+											Home Premium Home Premium	

Positioning Processor	Excellent performance at competitive prices  AMD® Athlon™ 64 X2 4000+, 4400+, or 4800+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology  Processor in 940-pin PGA package in Socket AM2	Tower  ■ Business black and silver bezel ■ 6.9" W X 16.7" D X 16.1" H ■ 175mm W X 424mm D X 410mm H ■ 22.0 lb (10.0 kg)  □ optical □ ② □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Memory	1GB 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 2 sockets; 2 sockets available	22.0 lb (10.0 kg)     Handle on top front     Toolless cover removal     Toolless disk, diskette drive,
Graphics	ATI™ Radeon™ X1250, integrated graphics in RS690, uses main memory, one 15-pin analog D-sub connector, optional PCI Express x16 adapter can support two monitors	optical drive removal • Toolless adapter retention  Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open
SATA disk SATA controller SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	160GB or 320GB, SATA300, 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in SB600 south bridge, four SATA connectors Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619) Some: Super Multi-Burner DL DVD±RW SATA150 Drive (41N5620) Enhanced IDE, ATA-133, integrated in SB600, 1 EIDE connector on planar None 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0	Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, std or opt 9-in-1/dstte Bay ④ 3.5", 1" high, no access, standard 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)*  * modem in slot in some models
Chipset	AMD 690G Chipset; I/O Controller Hub SB600 for SATA300, ATA-13 PCI Express x1, PCI Express x16, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O	33 EIDE,  Security  Security chip (see information on left) One lock to secure both cover and
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in (stereo), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) audio, ALC888 codec	mm) entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional

Preloaded operating system<sup>20</sup>
- Some: Microsoft® Windows® Vista
Home Premium Edition (32-bit) Some: Microsoft Windows Vista Business Edition (32-bit) All models: Vista Premium logo

#### Preloaded applications<sup>5</sup> (all OSes)

- Lenovo Care<sup>sM</sup> Tools

   Rescue and Recovery<sup>™</sup>
- System Update

Internal speaker

Security chip

Ethernet

Keyboard

Mouse Power supply

Modem

- Password Manager
- Lenovo Multimedia Center
- Norton Internet Security™ (90 days of virus definitions)
  PC-Doctor™ (diagnostics)
  Network Magic™
  Adobe® Reader

- Windows Live™ Toolbar Windows Live Search

- windows Live Search
  Picasa from Google
  Diskeeper® Home
  Corel® Small Business Center™ with
  WordPerfect® Office 12
- QuickBooks Financial Center Microsoft Office 2007 Trial
- EarthLink Trial (Vista Home Premium)

### Accessories

Gigabit ethernet on planar, Marvell® 88E8071, PCIe x1, Wake on LAN® Some: 56K¹⁰ V.90 data/fax soft modem, PCI adapter Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant

External speakers Desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo

104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black

280 watts, universal, manual switch

Internal mono speaker

1GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2001
2GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2002
20D I 02-0000 DDINZ ODIIVIIVI (TOpoeller)	
Super Multi-Burner DL DVD±RW SATA Drive	
160GB Serial ATA300 Disk (7200 rpm)	09N4254
250GB Serial ATA300 Disk (7200 rpm)	41N3015
500GB Serial ATA300 Disk (7200 rpm)	43R1990
USB Portable Diskette Drive	05K9276
USB 2.0 Essential Memory Key 1GB	41U4940
USB 2.0 Essential Memory Key 2GB	41U4944
USB 2.0 Security Memory Key 1GB	41U5118
USB 2.0 Security Memory Key 2GB	41U5119
USB 2.0 Security Memory Key 4GB	41U5120
USB 2.0 Portable 80GB Hard Disk	41N8378
USB 2.0 Portable 120GB Hard Disk	41N8379
USB 2.0 Super Multi-Burner Drive-LS	41N5565
Preferred Pro Full Size PS/2 Keyboard	31P7415
Wireless Kbd & Opt Wheel Mouse (via USB)	
USB 2.0 Lenovo Multimedia Headset	40Y8518
USB 2.0 Lenovo Webcam	40Y8519
ThinkVision® L190x 19" LCD Monitor	4439HB2
ThinkVision L193p 19" LCD Monitor	4431HB2
ThinkVision L194 Wide 19" LCD Monitor	4434HB6
ThinkVision L220x Wide 22" LCD Monitor	4433HB2
ATI Radeon HD 2400 XT 256MB	43R1962
Acc Guide in pdf lenovo.com/accessoriesgu	ide
Other acceptation at http://leneure.com/acce	

Other accessories at http://lenovo.com/accessories

- Administrator password
- Boot sequence control
- · Boot without keyboard, mouse, diskette
- Unattended start mode Serial port I/O control
- Parallel port I/O control

#### Limited Warranty<sup>1</sup>

- 1-year parts and labor
- ✓ International Warranty Service<sup>9</sup>
   ✓ Customer Replaceable Unit (CRU) parts are available with onsite service<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays,
- next business day response time Onsite service upgrade options (in eligible locations):7
  - 2-year LOR 9x5, Next Business Day (Lenovo Care<sup>SM</sup> part number 41K0541) **3-year LOR 9x5, Next Business Day**
  - (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

## Lenovo™ 3000 J200, J205 Accessories

Partial list of accessories supported on • Lenovo 3000 J200 with 945GC chipset • Lenovo 3000 J205 with 690G chipset		
Memory 512MB PC2-5300 CL5 NP DDR2 UDIMM 1GB PC2-5300 DDR2 UDIMM (TopSeller) 1GB PC2-5300 CL5 NP DDR2 UDIMM 2GB PC2-5300 CL5 NP DDR2 UDIMM 2GB PC2-5300 CL5 NP DDR2 UDIMM  Optical  DVD-ROM DL SATA150 16X-48X Max <sup>4</sup> Drive CD-RW/DVD-ROM Combo SATA150 Drive Super Multi-Burner DL DVD±RW SATA Drive  Storage and removable storage 80GB Serial ATA300 Disk (7200 rpm) 160GB Serial ATA300 Disk (7200 rpm) 250GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) USB Portable Diskette Drive USB 2.0 Essential Memory Key 1GB USB 2.0 Essential Memory Key 2GB USB 2.0 Security Memory Key 2GB USB 2.0 Security Memory Key 4GB USB 2.0 Security Memory Key 4GB USB 2.0 Security Memory Key 4GB USB 2.0 CD-RW/DVD-ROM Combo II Drive USB 2.0 Portable 80GB Hard Disk USB 2.0 Super Multi-Burner Drive	73P4983 ann 06/28/05 43R2001 ann 03/25/08 73P4984 ann 06/28/05 43R2002 ann 03/25/08 73P4985 ann 09/26/06 41N5618 ann 09/26/06 41N5620 ann 09/26/06 09N4253 ann 05/19/03 09N4254 ann 05/19/03 41N3015 ann 01/24/06 43R1990 ann 11/06/07 05K9276 ann 06/05/00 41U4940 ann 01/23/07 41U5118 ann 07/17/07 41U5119 ann 07/17/07 41U5119 ann 07/17/07 41U5120 ann 07/17/07 41N8378 ann 04/17/07 41N8379 ann 04/17/07 41N8379 ann 04/17/07	Radial Årm 19K4464 ann 05/05/00  46 Compatible on selected Lenovo and ThinkVision monitors.  Medialess License Key (MLK)
Graphics J200 Tower 9690 with 945GC models support ATI™ Radeon™ HD 2400 XT 256MB	up to 75 watt max: 43R1962 ann 11/06/07	
J205 Tower 9686 with 690G models support up ATI Radeon HD 2400 XT 256MB	p to 75 watt max: 43R1962 ann 11/06/07	Other accessories at http://lenovo.com/accessories
Keyboard Preferred Pro USB Keyboard Preferred Pro Full Size PS/2 Keyboard Wireless Kbd & Opt Wheel Mouse (via USB)	73P5220 ann 06/21/05 31P7415 ann 06/04/02 73P4067 ann 12/06/04	Accessories Guide at pdf <b>lenovo.com</b> /accessoriesguide  Need to buy accessories no longer marketed by Lenovo? See www.itxchange.com/lenovo for the Options Continuation Program.
Mouse Optical Wheel Mouse (USB) Optical ScrollPoint® Mouse (USB, PS/2) Laser Tilt Wheel Mouse (USB, PS/2)	06P4069 ann 05/21/03 31P7405 ann 08/27/02 41U3074 ann 01/23/07	Lenovo Care <sup>sM</sup> maintenance services Onsite service upgrade options (in eligible locations): <sup>7</sup> 2-year Lenovo Onsite Repair 9x5, Next Business Day 3-year Lenovo Onsite Repair 9x5, Next Business Day 41K0541 41K0542
Multimedia USB 2.0 Lenovo Multimedia Headset USB 2.0 Lenovo Webcam	40Y8518 ann 06/27/06 40Y8519 ann 08/29/06	Post-warranty maintenance services: <sup>6</sup> 1-year Lenovo Onsite Repair 9x5, Next Business Day 2-year Lenovo Onsite Repair 9x5, Next Business Day 41K0543
Power and Cables Belkin 7-Outlet Surge Protector	31P7657	Lenovo Care maintenance services at http://lenovo.com/warranty

 lot x bay	Processor	GHz	L2 cache	Core N	/lemory <sup>8</sup>	Media reader		SATA optical (						Remote control		Avail date
4x5 Core		2.33	4MB	Dual	2GB	8-in-1	500GB	DVD±RW DVD±RW DVD±RW	/ GMA	Viiv Viiv	Mod Mod	TV	Pwr	Remote	Home Prem Home Prem Home Prem	Oct 07

· Power Dial on front to adjust power and energy for three modes (cool, auto, and turbo)

Processor  Implementation	Intel® Pentium® Dual-Core Processor E2140 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 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 4MB shared L2 cache on each die Processor in FC-LGA6 package in LGA775 socket	Tower  Black and s 7.1" W X 17 180mm W X 28.8 lb (13.8) Handle on s Toolless co Toolless ad Bay ① 5.25",
Memory	2GB or 3GB std, 8GB max8 (Vista only supports 3.2GB max), PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets Italics: standard memory in two sockets; 2 sockets available; Non-italics: standard memory in three sockets; 1 socket available	Bay ② 5.25" Bay ③ 3.25", Bay ④ 3.5", Bay ⑤ 3.5",
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G33, uses main memory, one 15-pin analog D-sub connector	Slot 2: half-le Slot 3: half-le Slot 4: half-le
SATA disk SATA controller	320GB or 500GB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH9R, supports RAID 0, 1, 5, 10	* TV tuner of the modem in
SATA DVD±RW SATA cables EIDE controller Diskette drive Media reader	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None 8-in-1 media reader, internal USB 2.0	
Chipset	Intel G33 Express Chipset; I/O Controller Hub 9 RAID (ICH9R) for SATA 3.0Gb/s with RAID 0/1/5/10 support, PCI Express x1, ethernet PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, para hardware monitoring (temperature, voltage, fan speed)	
Front ports Rear ports  Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in, line-in, line-out, CEN/LFE-out, surround-out, SPDIF-High Definition (HD) audio, ADI1988 codec None None None 10/100 ethernet on planar, Intel 82566DC (PHY/MAC) Some: 56K <sup>10</sup> V.90 data/fax soft modem, PCI adapter None	,
Intel Viiv TV tuner Remote control Ira receiver Power dial	Some: Intel Viiv <sup>™</sup> technology for the home Some: dual tuner high definition ATSC/QAM digital TV plus analog T Hauppauge WinTV-HVR-1800, PCle x1 Philips Vista MCE remote control (40-button) Philips Vista MCE Ira receiver Power dial (with breathing lights) to adjust power and energy for thre (green light for cool mode, blue light for auto mode, and red light for	e modes
Keyboard Mouse Power supply	104-key anti-bacterial keyboard (PS/2) Optical Wheel Mouse (USB), 400 dpi 280 watts, universal, manual switch	
Preloaded opera	ating system <sup>20</sup>	

- Preloaded operating system<sup>20</sup>
   Microsoft® Windows® Vista®
  Home Premium Edition (32-bit) *All models:* Vista Premium logo
- Preloaded applications<sup>5</sup>
- Lenovo Rescue System
  - OneKey Antivirus
  - File Management

- File Management
   OneKey Recovery
   Driver & Application Installation
   Lenovo Power Dial
   Trend Micro™ PC-cillin™ Internet Security 2007
   EarthLink®

- Windows Live™ Toolbar
   Microsoft Office 2007 Trial (60-day)
   InterVideo WinDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)

- silver bezel
- 7.9" D X 15.0" H
- X 455mm D X 380mm H
- .1 kg)
- top front
- ver removal
- sk, optical drive removal
- dapter retention

", 1.6" high, access, ", 1.6" high, access, ", 1" high, access, standard optical

open

8-in-1 media reader

1" high, no access, standard disk 1" high, no access, opt disk

ength,full-height, PCI Express x16 Ver 1.1 ength,full-height, PCI Express x1 Ver 1.1 ength,full-height, PCI Express x1 Ver 1.1\* ength,full-height, 32-bit PCI Ver 2.3 \*\*

card in slot in some models

n slot in some models

#### Security

Chassis lock



### Limited Warranty<sup>1</sup>

- 1-year parts and labor
- International Warranty Service<sup>9</sup>
- Customer Replaceable Unit (CRU)
  parts are available with onsite service<sup>3</sup>,
  8 am 5 pm, Mon Fri coverage
  excluding holidays,
  next business day response time
  Lenovo Care services at

- http://lenovo.com/warranty 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 1-877-453-6686

**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.

- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- <sup>2</sup> Hard disk drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- <sup>3</sup> Customer Replacement Units (CRUs) are designed to be replaced by customers during the applicable warranty period. Lenovo will send a technician onsite to perform a repair if remote telephone diagnosis does not isolate the problem, if customer replaceable parts are unable to resolve the problem, or at the request of the customer. For a list of customer replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges.
- <sup>4</sup> CD and DVD list maximum rates; rates are variable and are often less than the maximum.
- 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> Post-warranty annual maintenance agreement: Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

- Lenovo Care Services: 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 at your discretion, will be express shipped to you for quick replacement. See Lenovo Care terms and conditions for complete details and restrictions.
- 8 Memory: For PCs without a separate video card, memory supports both system and video. Accessible system memory is up to 64MB less than the amount stated, depending on video mode.
- International Warranty Service is available for most models 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.
- 11 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.
- 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 and enter your machine type and model number for more information.

# lenovo

This publication was developed for products and services offered in the United States. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications and other product information at any time without prior notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions; therefore this disclaimer may not apply to you.

Trademarks: Lenovo, the Lenovo logo, New World. New Thinking., Access Connections, Rescue and Recovery, Think-Vantage, and ThinkVision are trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside logo, Intel Core and Core Inside are trademarks of Intel Corporation in the US and other countries. AMD, the AMD logo, AMD Athlon, AMD Sempron, and combinations thereof, are trademarks of Advanced Micro Devices. Inc. PCI Express is a trademark of PCI-SIG. Other company, product, or service names may be trademarks or service marks of oth-

Visit lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

© Lenovo, 2008. All rights reserved.

> Lenovo 1009 Think Place Morrisville, NC 27560 U.S.A.

June 2008 jwbook.pdf