Cheetah
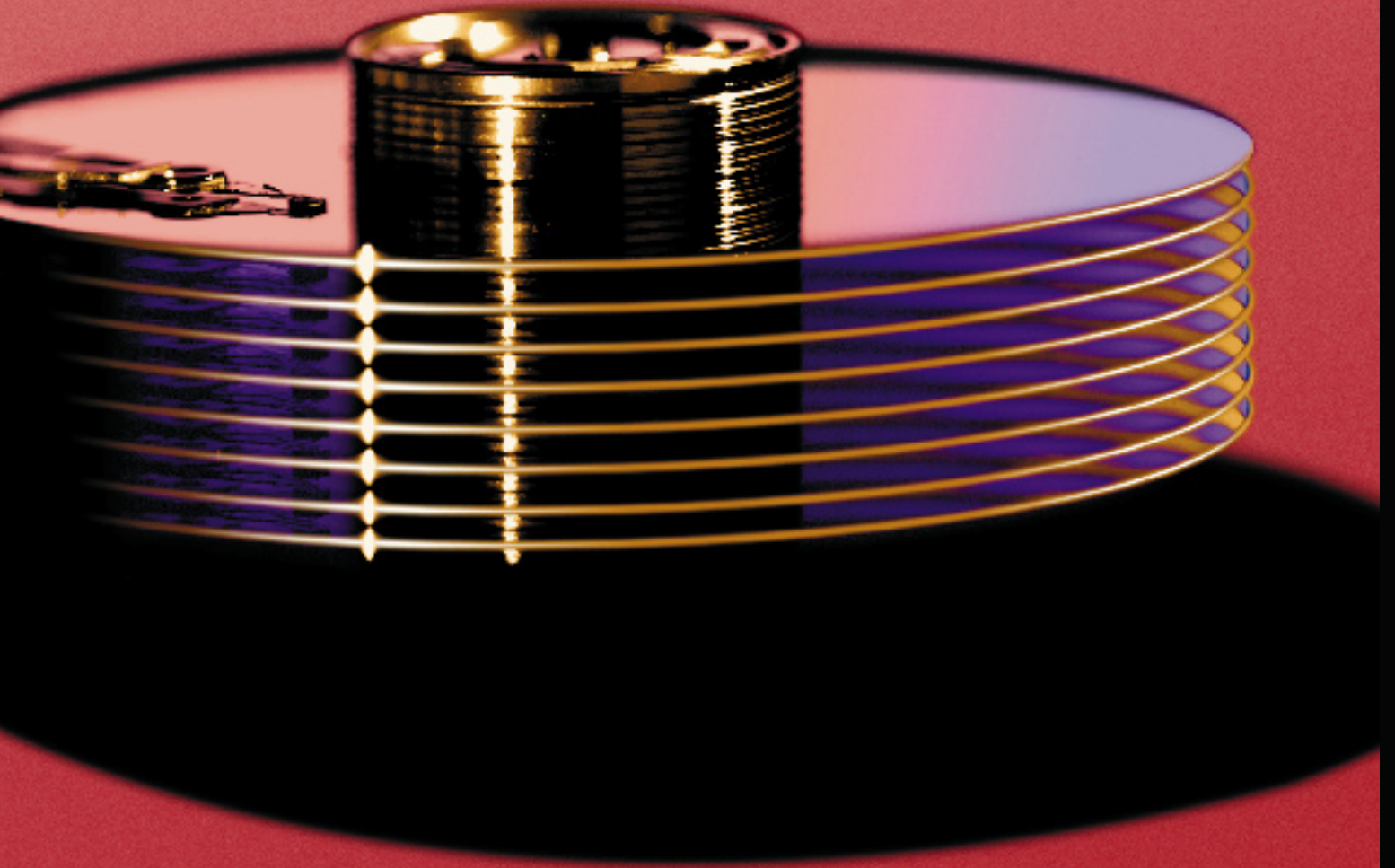
4.5 to 9.1–Gbyte
capacity
disc drives

3.5 INCH

Desktop
Storage
Systems

Seagate

Industry-leading performance for the most demanding applications, workstations, network file servers and enterprise servers

| Industry's highest-performance 10,000-RPM 3.5-inch disc drives | Unsurpassed formatted data-transfer rates of 11.3 to 16.8 Mbytes per second | High-performance UltraSCSI and Fibre Channel interfaces Average seek times as fast as 7.5 msec | Embedded servo provides uninterrupted data transfer for A/V applications |

8-, 16-bit and Single Connector UltraSCSI and Fibre Channel Interfaces

	New ST34501N ST34501W ST34501WD ST34501WC ST34501DC Cheetah 4LP	New ST34501FC Cheetah 4LP	New ST19101N ST19101W ST19101WD ST19101WC ST19101DC Cheetah 9	New ST19101FC Cheetah 9
Capacity and Interface				
Formatted Gbytes (512 bytes/sector)	4.55	4.55	9.1	9.1
Interface	UltraSCSI (8- and 16-bit,SCA)	Fibre Channel (Dual Port)	UltraSCSI (8- and 16-bit,SCA)	Fibre Channel (Dual Port)
Performance				
Internal Transfer Rate, ZBR (Mbits/sec)	122 to 177	122 to 177	122 to 177	122 to 177
Internal Formatted Transfer Rate (Mbytes/sec)	11.3 to 16.8	11.3 to 16.8	11.3 to 16.8	11.3 to 16.8
External Transfer Rate, 8/16 (Mbytes/sec)	20/40	100 per port	20/40	100 per port
Multisegmented Cache (Kbytes)	512 (2,048 opt.)	1,024	512 (2,048 opt.)	1,024
Track-to-Track Seek, Read/Write (msec)	0.78/1.04	0.78/1.04	0.78/1.04	0.78/1.04
Average Seek, Read/Write (msec)	7.5/8.5	7.5/8.5	8/9	8/9
Maximum Seek, Read/Write (msec)	18	19	18	19
Average Latency (msec)	2.99	2.99	2.99	2.99
Spindle Speed (RPM)	10,033	10,033	10,033	10,033
Configuration/Organization				
Discs/Heads	4/8	4/8	8/16	8/16
Servo	Embedded	Embedded	Embedded	Embedded
Sectors per Drive (512 bytes/sector)	8,890,080	8,890,080	17,839,344	17,839,344
Cylinders	6,582	6,582	6,582	6,582
Recording Method	PRML (0,4,4)	PRML (0,4,4)	PRML (0,4,4)	PRML (0,4,4)
Reliability/Data Integrity				
MTBF (power-on hours)	1,000,000	1,000,000	1,000,000	1,000,000
Recoverable Read Errors per Bits Read	10 per 10^{11}	10 per 10^{11}	10 per 10^{11}	10 per 10^{11}
Nonrecoverable Read Errors per Bits Read	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}
Seek Errors (per seek)	10 per 10^{8}	10 per 10^{8}	10 per 10^{8}	10 per 10^{8}
Limited Warranty (years)	5	5	5	5
Power Requirements				
+12 VDC ±5% (amps typ)	0.82	0.94	1.42	1.6
(amps max)	2.0	3.0	4.0	4.2
+5 VDC ±5% (amps typ)	0.74	1.15	0.74	1.15
Power (Idle watts)	13.5	16.2	20.7	24.6
Environmental				
Operating Temperature (°C)	5 to 50	5 to 50	5 to 50	5 to 50
Nonoperating Temperature (°C)	−40 to 70	−40 to 70	−40 to 70	−40 to 70
Physical				
Height (inches/mm)	1.0/25.4	1.0/25.4	1.63/41.4	1.63/41.4
Width (inches/mm)	4.0/101.6	4.0/101.6	4.0/101.6	4.0/101.6
Depth (inches/mm)	5.75/146.1	5.75/146.1	5.75/146.1	5.75/146.1
Weight (lbs/kgs)	1.33/0.60	1.33/0.60	2.25/1.02	2.25/1.02

Capacity calculated with typical sparing. Sparing is user-optional.
Internal formatted transfer rate calculated with 512 bytes per sector.

Publication number 1466-002   Printed on recycled paper