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TECHNOLOGY GROUP

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Data Sheet

Barracuda 7200.10

Experience the industry's proven flagship perpendicular 3.5-inch hard drive

80 GB to 750 GB • SATA 1.5Gb/s or 3Gb/s and PATA 100

Key Advantages

- First 3.5-inch drive to utilize capacity- and reliability-boosting perpendicular recording technology
- First drive to reach 750 GB—a full year ahead of competition—enabling new solutions for data-intensive applications.
- Industry's most proven and established desktop hard drive available today—more than 16 million shipped to date*
- "One-stop shopping" with a broad range of capacity, cache and interface options for all your computing needs
- Best-in-class environmental specifications and reliability features
- Adaptive Fly Height offers consistent read/write performance from the beginning to the end of your computing workload.
- Clean Sweep automatically calibrates your drive.
- Directed Offline Scan runs diagnostics when storage access is not needed.
- RoHS-compliant design assures an environmentally conscious product.
- Enhanced G-Force Protection™ defends against handling damage.
- Seagate® SoftSonic™ motor enables whisper-quiet operation.
- Backed by a 5-year limited warranty



Best-Fit Applications

Desktop and High-Performance PCs

- Gamer PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream PCs
- Point-of-sale devices/ATMs
- USB/FireWire/eSATA personal external storage

Seagate 5-Year Warranty

*16 million Barracuda 7200.10 drives shipped as of 4/18/07

Barracuda 7200.10

Experience the industry's proven flagship perpendicular 3.5-inch hard drive

Specifications	750 GB[1]	500 GB[1]	400 GB[1]	320 GB[1]	250 GB[1]		160 GB[1]	80 GB[1]
Model Number	ST3750640A ST3750640AS	ST3500630A ST3500630AS	ST3400620A ST3400620AS	ST3320620A ST3320620AS	ST3250620A ST3250620AS ST3250820A ST3250820AS	ST3250410AS ST3250310AS	ST3160815A ST3160815AS ST3160215A ST3160215AS	ST380815AS ST380215A ST380215AS
Interface Options	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ	Ultra ATA/100 SATA 3Gb/s NCQ SATA 1.5Gb/s NCQ
Performance								
Transfer Rate, Max Ext (MB/s)	100/300	100/300	100/300	100/300	100/300	100/300	100/300	100/300
Cache (MB)	16	16	16	16	16, 8	16, 8	8, 2	8, 2
Average Latency (msec)	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
Spindle Speed (RPM)	7200	7200	7200	7200	7200	7200	7200	7200
Configuration/Organization								
Heads/Disks[2]	8/4	6/3	5/3	4/2	3/2	2/1	2/1	1/1
Bytes per Sector	512	512	512	512	512	512	512	512
Reliability/Data integrity								
Contact Start-Stops	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Nonrecoverable Read Errors per Bits Read	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}	1 per 10^{14}
Mean Time Between Failures (MTBF, hours)	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000
Annualized Failure Rate (AFR)	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%
Limited Warranty (years)	5	5	5	5	5	5	5	5
Power Management								
+12 VDC +/–10% (amps peak)	2.8	2.8	2.8	2.8	2.8	2.0	2.0	2.0
Power Management (watts) Seek Avg Operating Avg Idle Avg	 12.6 13.0 9.3	 12.6 13.0 9.3	 12.6 13.0 9.3	 12.6 13.0 9.3	 12.6 13.0 9.3	 9.0 8.5 5.3	 9.0 8.5 5.3	 9.0 8.5 5.3
Environmental								
Temperature, Operating (°C)	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Temperature, Nonoperating (°C)	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 75	–40 to 75
Shock, Operating: 2 msec (Gs)	68	68	68	68	68	63	63	63
Shock, Nonoperating: 1 msec (Gs)	300	300	300	350	350	350	350	350
Acoustics, Idle (bels—sound power)	2.8[3]	2.8[3]	2.7[3]	2.5[3]	2.5[3]	2.7[4]	2.8[4]	2.8[4]
Acoustics, Seek (bels—sound power)	3.7[3]	3.7[3]	3.4[3]	3.0[3]	3.0[3]	2.8[4]	2.9[4]	2.9[4]
Physical								
Height (in/mm)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	.787/19.99	.787/19.99	.787/19.99
Width (in/mm)	4.000/101.6	4.000/101.6	4.000/101.6	4.000/101.6	4.000/101.6	4.000/101.6	4.000/101.6	4.000/101.6
Depth (in/mm)	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99	5.787/146.99
Weight (lb/kg)	1.59/720	1.59/720	1.4/635	1.4/635	1.28/580	.805/365	.838/380	.805/365

[1]One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.
[2]Leading areal density enables fewer heads/disks.
[3]Measured in Performance Mode
[4]Measured in Quiet Mode

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