

Barracuda 7200.10

Where performance and reliability unite. Experience the industry's highest-capacity disc drive.



750GB of Pure,
Digital Storage
Equals the Largest,
Most Reliable Disc
Drive Around

The Barracuda 7200.10 Boasts Up to 750GB

Key Advantages

- The highest available capacity—up to 750GB—reduces system repairs and storage upgrades.
- “One-stop shopping” with a broad range of capacity, cache and interface options
- Best-in-class environmental specification and reliability features
- New perpendicular recording technology enables higher areal density, fewer moving parts and increased dependability.
- 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 Directive-compliant design assures you an environmentally conscious product.
- Enhanced G-Force Protection defends against handling damage.
- Seagate SoftSonic motor enables whisper-quiet operation.
- Backed by an unprecedented five-year warranty.

Best-Fit Applications

DESKTOP AND HIGH-PERFORMANCE PCS

- Gamer PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream PCs

LOW-COST SERVERS AND EXTERNAL STORAGE

- xATA servers
- USB/FireWire/eSATA external storage





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Specifications	750 GB ¹	500 GB ¹	400 GB ¹	320 GB ¹	250 GB ¹	200 GB ¹
Model Number	ST3750640A ST3750640AS	ST3500630A ST3500630AS	ST3400620A ST3400620AS	ST3320620A ST3320620AS	ST3250820A ST3250820AS ST3250620A ST3250620AS	ST3200820A ST3200820AS
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				
Performance						
Transfer Rate, Max Ext (Mbytes/sec)	100/300	100/300	100/300	100/300	100/100/300/300	100/300
Cache (Mbytes)	16	16	16	16	8, 16	8
Average Latency (msec)	4.16	4.16	4.16	4.16	4.16	4.16
Spindle Speed (RPM)	7200	7200	7200	7200	7200	7200
Configuration/Organization						
Heads/discs ²	8/4	6/3	5/3	4/2	3/2	3/2
Bytes per Sector	512	512	512	512	512	512
Reliability/Data Integrity						
Contact Start-Stops	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				
Annualized Failure Rate (AFR) (%)	0.34	0.34	0.34	0.34	0.34	0.34
Limited Warranty (years)	5	5	5	5	5	5
Power Management						
+12 VDC +/-10% (amps peak)	2.8	2.8	2.8	2.8	2.8	2.8
Power Management (watts)						
Seek Avg	12.6	12.6	12.6	12.6	12.6	12.6
Operating Avg	13.0	13.0	13.0	13.0	13.0	13.0
Idle Avg	9.3	9.3	9.3	9.3	9.3	9.3
Environmental						
Temperature, Operating (°C)	0 to 60	0 to 60				
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70				
Shock, Operating: 2 msec (Gs)	68	68	68	68	68	68
Shock, Nonoperating: 1 msec (Gs)	300	300	300	350	350	350
Acoustics, Idle (bels—sound power)	2.7	2.7	2.7	2.7	2.7	2.7
Acoustics, Seek (bels—sound power)	3.0	3.0	3.0	3.0	3.0	3.0
Physical						
Height (in/mm)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
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
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
Weight (lb/g)	1.59/720	1.59/720	1.4/635	1.4/635	1.28/580	1.28/580

¹ One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.

²Leading areal density enables fewer heads/discs.

Seagate Makes the Best Even Better With a 5-Year Warranty

Seagate offers the industry's leading warranty to demonstrate our commitment to product reliability and our customers' success. Every Seagate internal hard drive for PCs, notebook computers and entry-level servers is covered under our unprecedented five-year warranty.



World-Class Technical Support

- Certified, experienced support staff
- Rated "Above Average to Excellent" by 95 percent of our customers
- Support lines with the shortest wait times in the industry
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail
- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

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