


Barracuda 7200.9

Affordable storage built on advanced reliability and high-performance features



Core Capacities,
Interfaces and
Cache Options for
Entry-Level and
Mainstream
Applications

160GB to 40GB • 2MB or 8MB Cache • 7200 RPM • SATA 3Gb/s or 1.5Gb/s, Ultra ATA/100

Key Advantages

- Fastest SATA interface (3Gb/s) provides a larger data pipe for fast cache transfers and multi-drive performance.
- Covers your application needs—offering 2- or 8-Mbyte cache and interfaces including ATA/100 and SATA 1.5Gb/s or 3Gb/s
- SATA click connectors and thin cables for easier integrations and better cooling airflow
- Seagate SoftSonic motor enables whisper-quiet operation.
- Enhanced G-Force protection defends against handling damage.
- RoHS-compliant—environmentally conscious product
- Backed by an industry-leading, five-year warranty

Desktop PCs

- Mainstream PCs
- Entry level PCs

Low-Cost Servers and External Storage

- Entry-level servers
- USB/FireWire/eSATA external storage





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Specifications	160GB ¹	120GB ¹	80GB ¹	40GB ¹	160GB ¹	120GB ¹	80GB ¹	40GB ¹
Interface Options	SATA 3Gb/s NCQ				Ultra ATA/100			
Model Number	ST3160811AS ² ST3160211AS ²	ST3120811AS ² ST3120211AS ²	ST380811AS ² ST380211AS ²	ST340211AS ²	ST3160812A ST3160212A	ST3120814A ST3120213A	ST3802110A	ST3402111A
Performance								
Cache Options (Mbytes)	2, 8	2, 8	2, 8	2	2, 8	2, 8	2	2
Available Transfer Rates (Mbytes/sec)	100, 300	100, 300	100, 300	100, 300	100, 300	100, 300	100, 300	100, 300
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								
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
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	2.8	2.8	2.8
Power Management (watts)								
Seek Avg	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Operating Avg	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Idle Avg	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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 70	-40 to 70
Shock, Operating: 2 msec (Gs)	63	63	63	63	63	63	63	63
Shock, Nonoperating: 1 msec (Gs)	350	350	350	350	350	350	350	350
Acoustics, Idle (bels—sound power)	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.5
Acoustics, Seek (bels—sound power)	2.9	2.9	2.9	2.9	2.8	2.8	2.7	2.7
Physical								
Height (in/mm)	0.787/19.99 ²	0.787/19.99 ²	0.787/19.99 ²	0.787/19.99 ²	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	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/g)	0.79/360 ²	0.79/360 ²	0.79/360 ²	0.79/360 ²	1.28/580	1.28/580	1.28/580	1.28/580

¹ One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity. ² Models with lower drive height and weight.

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 five-year warranty.



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