


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.



World-Class Technical Support

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- 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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