

Product Overview

Momentum 7200.2

2.5-inch storage for performance laptops

The freedom of mobility, the benefit of performance and the promise of durability

Key Advantages

- 7200-RPM spin speed provides the highest available laptop performance, increasing system productivity approximately 25 percent over that of 5400-RPM drives.
- SATA 3Gb/s interface with Native Command Queuing (NCQ), the fastest interface option available today, enhances system performance levels.
- G-Force Protection™, optional Seagate freefall sensor technology, protects data when accidental drops or bumps occur.
- Low power consumption maximizes battery life and lets users work longer.
- Perpendicular recording technology enhances data reliability.
- 5-year limited warranty

Key Specifications

- Comprehensive range of capacities from 80 GB to 200 GB
- Interfaces: SATA 3Gb/s, SATA 1.5Gb/s with NCQ
- 8-MB or 16-MB cache buffer
- Perpendicular recording technology
- Operating shock: 300 Gs

The Seagate Advantage

With the best combination of performance, capacity and durability in a laptop hard drive, the Seagate® Momentum® 7200.2 drive is the ideal choice for high-performance mainstream laptops, gaming systems, commercial systems, workstations and small form factor PCs. Additional features, such as Seagate QuietStep™ ramp load technology and a 5-year limited warranty, make the Momentum 7200.2 drive the easiest solution to integrate. These drives are also a good fit in non-PC applications, such as external storage, blade servers and other storage applications that require robustness.



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Product Description

The Seagate Momentum 7200.2 drive offers the best combination of high performance, capacity, mobility and durability in a laptop hard drive, with a powerful SATA 3Gb/s interface, optional G-Force Protection and perpendicular recording.

Specific Applications

The Momentum 7200.2 drive offers the capacities and feature sets that will ensure optimal performance for the following applications:

- Mainstream laptops
- Workstations
- Gaming systems
- Small form factor PCs
- External boxes
- Non-mission-critical blade servers

G-Force Protection

When a laptop is dropped, the most catastrophic damage to the hard drive occurs when the head scrapes across the surface of the disk, causing potential data loss. Seagate has designed a drop sensor, called G-Force Protection, into the Momentum 7200.2 series. G-Force Protection protects the hard drive against shock by sensing when the system is in a free-fall state, moving the heads off the platter and locking them in place. All this happens within three-tenths of a second when a change in acceleration equal to the force of gravity is sensed. G-Force Protection results in added durability and reliability during accidental drops.

Advantages of Perpendicular Recording

After more than ten years of pioneering research at Seagate, perpendicular recording is now a proven technology. It increases capacity and dependability by storing data vertically rather than horizontally. Vertically stored data bits provide increased data density—which means higher performance and increased productivity.

Additional Features

- QuietStep ramp load technology enables extremely quiet load/unload acoustics
- The industry's most comprehensive compatibility and benchmark testing
- Reliable supply from the industry's largest supplier of disk drives
- 5-year limited warranty for distribution

Market Opportunity

Demand for drives going into laptop computers continues to grow exponentially. The laptop transition is driven by technology, as the performance gap between desktops and laptop PCs continues to close, making it possible to run the same applications on a laptop that users would typically have run on a desktop. Users no longer have to sacrifice performance for mobility.

To Learn More:

For more information about Seagate Momentum 7200.2 drives, visit www.seagate.com.

Specifications	
Capacity (GB)	80, 100, 120, 160, 200
Interface	SATA 3Gb/s or 1.5Gb/s with NCQ
Cache (MB)	8, 16
Spindle Speed (RPM)	7200
G-Force Protection	Optional feature on 80-, 160- and 200-GB drives
Shock, Operating (G)	300
Shock, Nonoperating (G)	900
Acoustics, Idle (Bels)	2.5
Operating Temperature (°C)	0 to 60

www.seagate.com

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