

Product Overview

Momentum® 7200.3

Industry-leading 7200-RPM performance meets the industry's lowest 7200-RPM power consumption levels.

Key Features and Benefits

- Highest available notebook performance increases productivity in all environments.
- Developed with proven Seagate 7200-RPM laptop technology
- Available in capacities from 80 GB to 320 GB
- SATA 3Gb/s NCQ interface
- 16-MB cache on every capacity
- G-Force Protection™ available for added robustness in mobile environments
- Green features:
 - Leverages Seagate laptop power management technology, delivering the lowest-power 7200-RPM laptop hard drive yet
 - Utilizes ramp load features which remove the head from the disk during idle periods, improving idle power consumption and adding to the durability of the drive
- QuietStep™ technology enables ultra-quiet load/unload acoustics
- Perpendicular recording technology

Key Applications

- Mainstream laptops
- Performance laptops
- Workstations
- Small form factor PCs



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Highest Available Notebook Performance

The Seagate® Momentum 7200.3 drive—the industry's highest-performing 7200-RPM laptop hard drive—delivers performance, small size and mobility to all users. Available with G-Force Protection, this drive also offers added durability and robustness in the event of the accidental drops that can occur in strenuous mobile environments. The Seagate Momentum 7200.3 laptop hard drives are available in capacities up to 320 GB and offer a SATA 3Gb/s interface with 16 MB of cache. They are perfect for mainstream and performance laptops, workstations and small form factor PCs.

To Learn More:

Perpendicular Recording

The Momentum 7200.3 drive uses proven Seagate perpendicular magnetic recording technology to increase capacity and dependability by storing data bits vertically rather than horizontally.

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. 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.

Market Opportunity

Demand for drives for 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 previously have run on a desktop. Users no longer have to sacrifice performance for mobility.

www.seagate.com

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Specifications

Capacity (GB)	320, 250, 160, 80
Interface	SATA 3Gb/s NCQ
Cache (MB)	16
Spindle Speed (RPM)	7200
Shock, Operating: 2 ms (Gs)	350
Shock, Nonoperating: 1 ms (Gs)	1000
Acoustics, Idle (bels)	2.3
Acoustics, Seek (bels)	2.5
Operating Temperature (°C)	0 to 60
MTBF (hours)	500,000
Annualized Failure Rate (AFR)	0.48%

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