

Product Overview

Momentum® 7200.4

**Industry-leading 7200-RPM performance
meets extreme green low power
consumption levels**

Key Features and Benefits

- Highest available notebook performance increases productivity in all environments.
- SATA 3Gb/s interface with Native Command Queuing (NCQ) and command ordering
- 16-MB cache on every capacity
- Green features:
 - Leverages Seagate® laptop power management technology, delivering the lowest-power 7200-RPM laptop hard drive yet
 - Utilizes ramp load features that remove the head from the disk during idle periods, improving idle power consumption and adding to the durability of the drive
- Optional G-Force Protection™ feature adds another layer of robustness for road warriors.
- QuietStep™ technology enables ultra-quiet load/unload acoustics
- State-of-the-art cache and on-the-fly error-correction algorithms
- Fluid dynamic bearing motor for quiet operation
- Support for S.M.A.R.T. drive monitoring and reporting

Key Applications

- High-performance and mainstream laptop PCs
- Small form factor PCs
- Workstations
- Non-mission-critical blade servers and industrial applications



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Green, of Course

All our laptop drives are environmentally green, but it's our technology that really makes them sprout. Momentum® 7200-RPM drives are designed with the environment in mind. Seagate drives contain a large percentage of recyclable material, typically over 70 percent. Our drives are all RoHS compliant and also comply with several non-regulatory restrictions. In fact, Seagate restricts over 200 substances in our products.

Highest Available Notebook Performance

The Seagate Momentum 7200.4 drive delivers the highest available laptop hard drive capacity while satisfying today's need for desktop performance in a notebook computer. System builders can count on extending the life of their 7200-RPM laptops by eliminating the need to replace or upgrade due to performance obsolescence issues. All this without sacrificing battery life, because these new 7200-RPM drives draw only slightly more power than a 5400-RPM laptop drive.

When it comes to getting more time back in your day, nothing feels better than a well-performing laptop. Our Momentum 7200-RPM drives can give precious moments back when you really need them. In fact, Seagate 7200-RPM drives can shut your system down 34 percent faster, and opening big files can be up to 30 seconds faster than a 5400-RPM drive can manage. When it's your turn to shine, your 7200-RPM Seagate drive won't keep you waiting.

Specifications

Capacity (GB)	500 and 250
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, typical (bels)	2.3
Acoustics, Seek, typical (bels)	2.5
Operating Temperature (°C)	0 to 60

G-Force Protection

Additionally, the Momentum 7200-RPM family comes with an optional G-Force Protection feature for hardcore road warriors or even aspiring warriors in need of extra robustness. The G-Force Protection feature provides enhanced data protection against shock that may occur while the drive is operating. This feature is designed to decrease the likelihood of data loss by detecting a freefall event and unloading the actuator before a shock takes place in falls of greater than 8 inches (nominal). The drive uses a drop sensor mounted on the printed circuit board assembly to sense this event and protect your data.

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.

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