

Product Overview

Momentum® 7200.4

Industry-leading 7,200-RPM performance meets extraordinary green low power consumption levels

Key Features and Benefits

- Highest available notebook performance increases productivity in all environments.
- SATA 3-Gb/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 7,200-RPM laptop hard drive to date
 - Uses ramp load features that remove the head from the disc 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 SMART 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 is our technology that really makes them sprout. Momentum® 7,200-RPM drives are designed with the environment in mind. Seagate drives contain a large percentage of recyclable material, typically over 70 per cent. Our drives are all RoHS compliant and also comply with several non-regulatory restrictions. In fact, at Seagate we restrict 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 7,200-RPM laptops by eliminating the need to replace or upgrade due to performance obsolescence issues. All this without sacrificing battery life, because these new 7,200-RPM drives draw only slightly more power than 5,400-RPM laptop drives.

When it comes to getting more time back in your day, nothing feels better than a well-performing laptop. Our Momentum 7,200-RPM drives can give precious moments back when you really need them. In fact, Seagate 7,200-RPM drives can shut your system down 34 per cent faster, and open large files up to 30 seconds faster than a 5,400-RPM drive. When it is your turn to shine, your 7,200-RPM Seagate drive will not keep you waiting.

Specifications	
Capacity (GB)	500 and 250
Interface	SATA 3-Gb/s NCQ
Cache (MB)	16
Spindle Speed (RPM)	7,200
Shock, Operating: 2 ms (Gs)	350
Shock, Non-operating: 1 ms (Gs)	1,000
Acoustics, Idle, typical (bels)	2.3
Acoustics, Seek, typical (bels)	2.5
Operating Temperature (°C)	0 to 60

G-Force Protection™

Additionally, the Momentum 7,200-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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