Product Overview

Momentus® 5400.6

Durable mobility anywhere, any time

Key Features and Benefits

- 8-MB cache delivers fast performance
- Robust design and high shock tolerance enable mobility in rugged operating environments
- 1,000 Gs of non-operating shock make the drive ideal for notebook PCs and industrial applications
- G-Force Protection™ feature available for added robustness in mobile environments
- Green features:
  - Leverages Seagate laptop power management technology
  - 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
- QuietStep™ technology enables ultra-quiet load/unload acoustics
- SATA 3-Gb/s interface with Native Command Queuing
- Fourth-generation perpendicular recording technology
- High instantaneous (burst) data transfer rates up to 3 Gb/s

Key Applications

- Mainstream laptops
- External storage solutions/boxes
- Whitebooks
- Industrial applications requiring a small form factor

Momentus® 5400.6

Durable mobility anywhere, any time

Up to 1,000 Gs of Shock Resistance

The Seagate® Momentus 5400.6 drive offers the best combination of performance, capacity, mobility and durability in a laptop hard drive. Using optional G-Force Protection technology, this drive provides added durability and robustness in the event of the accidental drops that can occur in strenuous mobile environments. With capacities from 120 GB to 500 GB, the Momentus 5400.6 drive meets the demanding requirements of today's notebook multimedia usage models. Built with proven Seagate perpendicular recording technology and able to withstand up to 1,000 Gs of shock, this highly reliable 2.5-inch drive is perfect for notebook or external storage applications.

G-Force Protection Technology

When a laptop is dropped, the most catastrophic damage to the hard drive occurs when the head scrapes across the surface of the disc, causing potential data loss. G-Force Protection technology 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 technology 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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To Learn More:

Perpendicular Recording

The Momentus® 5400.6 drive uses proven Seagate perpendicular magnetic recording technology to increase capacity and dependability by storing data bits vertically rather than horizontally.

Specifications	
Capacity (GB)	500, 320, 250, 160 and 120
Interface	SATA 3-Gb/s NCQ
Cache (MB)	8
Spindle Speed (RPM)	5,400
Shock, Operating: 2 ms (Gs)	350
Shock, Non-operating: 1 ms (Gs)	1,000
Acoustics, Idle (bels)	2.4
Acoustics, Seek (bels)	2.6
Operating Temperature (°C)	0 to 60
MTBF (hours)	500,000
Annualised Failure Rate (AFR):	0.48%

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