

LAPTOP HDD

Data Sheet

Huge Capacity. Small Size.

- 9.5mm, 2.5-inch drive from Seagate now supports up to 2TB of data in a two- and three-disk design
- Standard 9.5mm form factor supported by a SATA 6Gb/s interface for easy integration into existing laptops.

Best-Fit Applications

- Traditional laptops
- Convertible and detachable storage
- Slim consumer electronics devices
- Small form factor desktops and all-in-ones PCs





LAPTOP HDD



Specifications	2TB	1TB
Model Number ¹	ST2000LM003	ST1000LM024
Configuration/Organisation		
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache	32MB	16MB
Bytes per Sector	TBD	TBD
Load/Unload Cycles ²	TBD	TBD
Performance		
Seek Average (ms)	12	12
I/O Data Transfer Rate, Max (MB/s)	600	600
Max Sustainable Transfer Rate	169MB/s	145MB/s
Spin Speed	5400RPM	5400RPM
Reliability/Data Integrity		
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Annualised Failure Rate (AFR)	0.48%	0.48%
Power Management		
Startup Power (12V, A)	1.0	1.0
Power, Seek, Typical (W)	2.0W	2.0W
Idling Average (W)	0.7W	0.7W
Environmental/Temperature		
Temperature, Operating (°C)	0°C ~ 60°C	0°C ~ 60°C
Temperature, Non-operating (°C)	-40°C ~ 70°C	-40°C ~ 70°C
Shock, Operating: 2ms (Gs)	300Gs	350Gs
Shock, Non-operating: 1ms (Gs)	850Gs	900Gs
Acoustic, Seek/Idle, Typical (bels)	2.7bels/2.5bels	2.5bels/2.3bels
Physical		
Height (mm/in)	9.5mm/0.374in	9.5mm/0.374in
Width (mm/in, max)	69.85mm/2.75in	69.85mm/2.75in
Depth (mm/in, max)	100.35mm/3.951in	100.3mm/3.95in
Weight (lb/g)	130g/0.29lb	117g/0.26lb
Carton Unit Quantity	50	50
Cartons per Pallet / Cartons per Layer	60 / 10	60 / 10
Special Features		
Halogen-free	Yes	Yes
RoHS compliance	Yes	Yes

¹ One gigabyte, or GB equals one billion bytes; and one terabyte or TB, equals one trillion bytes when referring to drive capacity.
² Load/Unload tested to 600,000 cycles

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AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
 ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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