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/Organization		
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache	32MB	—
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	5,400RPM	5,400RPM
Reliability/Data Integrity		
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	—	—
Power Management		
Startup Power (12V, A)	—	—
Power, Seek, Typical (W)	2W	2W
Idle Average (W)	0.7W	0.7W
Environmental/Temperature		
Temperature, Operating (°C)	0°C - 60°C	0°C - 60°C
Temperature, Nonoperating (°C)	-40°C - 70°C	-40°C - 70°C
Shock, Operating: 2ms (Gs)	300Gs	350Gs
Shock, Nonoperating: 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 (g/lb)	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.

SEAGATE.COM