

Mobile HDD

Data Sheet

Thin size. Huge storage. Amazing value.

- Seagate's highest-capacity thin 7mm laptop drives at 1 TB and 2TB
- Best cost per TB and cost per millimeter for thin mobile/laptop customers
- Light in weight to support portable computers
- Enables drop-in 2 TB capacity transition without the weight of traditional laptop drives
- Stores up to 200,000 photos, 250,000 songs or 124 hours of high-definition video¹
- Standard SATA 6 Gb/s interface for easy integration into existing mobile/laptop designs
- Easy deployment for laptop upgrades while enabling the small 7mm form factor system design

Best-Fit Applications

- Traditional laptops
- Convertible and detachable storage
- Slim consumer electronics devices



¹ Calculations based on a 2 TB drive. Quantitative usage examples for various applications are for illustrative purposes. Actual quantities will vary based on various factors, including file size, file format, features and application software.



Mobile HDD



Specifications	2TB	1TB
Base Model	ST2000LM007	ST1000LM035
Seagate Secure™ Model ¹	ST2000LM009	ST1000LM037
Seagate Secure FIPS 140-2 Model ^{1,2}	ST2000LM010	ST1000LM038
Bytes per Sector (logical/physical)	512/4,096	512/4,096
Performance		
Interface	SATA 6Gb/s	SATA 6Gb/s
Data Transfer Rate (up to)	140MB/s	140MB/s
Cache	128 MB	128 MB
Spindle Speed (RPM)	5400	5400
Reliability/Data Integrity		
Load/Unload Cycles	600,000	600,000
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Warranty, Limited (years) ³	2	2
Power Management		
Startup Current (+5V, A)	1.0	1.0
Read/Write Power, Average (W)	1.7/1.8	1.6/1.7
Idle Average (W)	0.5 W	0.45 W
Environmental/Temperature		
Operating Temperature (°C)	0°C – 60°C	0°C – 60°C
Non-operating Temperature (°C)	-40°C – 70°C	-40°C – 70°C
2ms Operating Shock (Gs)	400 Gs	400 Gs
1ms Non-operating Shock (Gs)	1,000 Gs	1,000 Gs
Acoustics, Idle, Typical (bels)	2.2 bels	2 bels
Acoustics, Seek, Typical (bels)	2.4 bels	2.2 bels
Physical		
Height (mm/in)	7 mm/0.276 in	7 mm/0.276 in
Width (mm/in, max)	69.85 mm/2.75 in	69.85 mm/2.75 in
Depth (mm/in, max)	100.35 mm/3.951 in	100.35 mm/3.951 in
Weight (lb/g)	90 g/0.198 lb	90 g/0.198 lb
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 SEDs and FIPS SEDs are not available in all models or countries. May require TCG-compliant host or controller support.

² See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>

³ Extended warranty products available. Consult your distributor for details.

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