

Mobile HDD

Data Sheet

Thin size. Huge storage. Amazing value.

- Seagate's highest-capacity thin 7mm laptop drives at 1TB 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 2TB 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 6Gb/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 2TB 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 ¹	1TB ¹
Base Model	ST2000LM007	ST1000LM035
Seagate Secure™ Model	ST2000LM009 ²	ST1000LM037 ²
Seagate Secure FIPS 140-2 Model	ST2000LM010 ^{2,3}	ST1000LM038 ^{2,3}
Configuration/Organization		
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache (MB)	128	128
Bytes per Sector (logical/physical)	512/4096	512/4096
Load/Unload Cycles	600,000	600,000
Performance		
Seek Average (ms)	13	13
I/O Data Transfer Rate, Max (MB/s)	600	600
Sustained Data Transfer Rate OD, Max (MB/s)	100	100
Reliability/Data Integrity		
Limited Warranty (years) ⁴	2	2
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)	0.48%	0.48%
Power Management		
Startup Power, Typical (A)	1.0	1.0
Seek, Typical (W)	1.7	1.6
Idle, Typical (W)	0.5	0.45
Environmental		
Temperature (°C)		
Operating	0 to 60	0 to 60
Nonoperating	-40 to 70	-40 to 70
Shock (Gs)		
Operating: 2ms	400	400
Nonoperating: 1ms	1000	1000
Acoustics (bels—sound power)		
Idle, Typical	2.2	2.0
Seek, Typical	2.4	2.2
Physical		
Height (mm/in)	7.0/0.276	7.0/0.276
Width (mm/in)	70.1/2.76	70.1/2.76
Depth (mm/in)	100.55/3.959	100.55/3.959
Weight (g/lb)	90/0.198	90/0.198
Carton Unit Quantity	50	50
Cartons Per Layer	10	10
Cartons Per Pallet	60	60
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 SEDs and FIPS SEDs are not available in all models or countries. May require TCG-compliant host or controller support.

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

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



FIPS 140-2 Inside



Seagate Secure

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