

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	1TB
Base Model	ST2000LM007	ST1000LM035
Seagate Secure™ Model ¹	ST2000LM009	ST1000LM037
Seagate Secure FIPS 140-2 Model ^{1,2}	ST2000LM010	ST1000LM038
Configuration/Organisation		
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache	128MB	128MB
Bytes per Sector (logical/physical)	512/4,096	512/4,096
Load/Unload Cycles	600,000	600,000
SMR Technology, Drive-Managed	Yes	Yes
Performance		
Seek Average (ms)	13 ms	13 ms
I/O Data Transfer Rate, Max (MB/s)	600 MB/s	600 MB/s
Max Sustainable Transfer Rate	140MB/s	140MB/s
Reliability/Data Integrity		
Warranty, Limited (years) ³	2	2
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)	1.7W	1.6W
Idling Average (W)	0.50W	0.45W
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)	400Gs	400Gs
Shock, Non-operating: 1ms (Gs)	1000Gs	1000Gs
Acoustic, Seek/Idle, Typical (bels)	2.4bels/2.2bels	2.2bels/2.0bels
Physical		
Height (mm/in)	7.0mm/0.268in	7.0mm/0.268in
Width (mm/in, max)	69.85mm/2.75in	69.85mm/2.75in
Depth (mm/in, max)	100.35mm/3.951in	100.35mm/3.951in
Weight (lb/g)	90g/0.198lb	90g/0.198lb
Carton Unit Quantity	50	50
Cartons per Pallet / Cartons per Layer	10 / 60	10 / 60
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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