

# 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 video<sup>1</sup>
- 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

<sup>1</sup> 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 <sup>1</sup>	ST2000LM009	ST1000LM037
Seagate Secure FIPS 140-2 Model <sup>1,2</sup>	ST2000LM010	ST1000LM038
Bytes per Sector (logical/physical)	512/4,096	512/4,096
<b>Performance</b>		
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
<b>Reliability/Data Integrity</b>		
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) <sup>3</sup>	2	2
<b>Power Management</b>		
Startup Current (+5V, A)	1.0	1.0
Read/Write Power, Average (W)	1.7/1.8	1.6/1.7
Idling Average (W)	0.5 W	0.45 W
<b>Environmental/Temperature</b>		
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
<b>Physical</b>		
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
<b>Special Features</b>		
Halogen-free	Yes	Yes
RoHS compliance	Yes	Yes

<sup>1</sup> SEDs and FIPS SEDs are not available in all models or countries. May require TCG-compliant host or controller support.

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

<sup>3</sup> Extended warranty products available. Consult your distributor for details.

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