# SEAGATE Mobile HDD

### 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 highdefinition video<sup>1</sup>
- 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.



## SEAGATE Mobile HDD



Specifications	2TB	1TB
Base Model	ST2000LM007	ST1000LM035
Seagate Secure <sup>™</sup> Model <sup>1</sup>	ST2000LM009	ST1000LM037
Seagate Secure FIPS 140-2 Model <sup>1,2</sup>	ST2000LM010	ST1000LM038
Configuration/Organization		
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache	128MB	128MB
Bytes per Sector (logical/physical)	512 / 4096	512 / 4096
Load/Unload Cycles	600,000	600,000
SMR Technology, Drive-Managed	Yes	Yes
Performance		
Seek Average (ms)	13ms	13ms
I/O Data Transfer Rate, Max (MB/s)	600MB/s	600MB/s
Max Sustainable Transfer Rate	100MB/s	100MB/s
Reliability/Data Integrity		
Warranty, Limited (years) <sup>3</sup>	2	2
Head-Rest Method	QuietStep <sup>™</sup> Ramp Load	QuietStep Ramp Load
Nonrecoverable Read Errors per Bits	1 por 10E14	1 per 10514
Read, Max	1 per 10E14	1 per 10E14
Annualized 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
Idle Average (W)	0.50W	0.45W
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)	400Gs	400Gs
Shock, Nonoperating: 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 (g/lb)	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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