

Spinpoint™ M9T

Mobile SATA



Capacity ¹	1.5TB	2TB	Remark
Models	ST1500LM006 ST1500LM007 ST1500LM010	ST2000LM003 ST2000LM004 ST2000LM006	

FEATURES

- Max. 667GB formatted capacity per disk
- SATA Native Command Queuing Feature
- TuMR/PMR head with FOD technology
- Serial ATA 6.0 Gb/s Interface support
- Load/Unload Head Technology
- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

DRIVE CONFIGURATION

Capacity ¹	1.5TB, 2TB
Interface	SATA 6.0 Gb/s (3.0, 1.5 Gb/s)
Rotational Speed	5400 RPM class
Cache	32 MB

PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	12 ms
Average Latency	5.6 ms
Drive Ready Time (typical) ²	3.5 sec
Data Transfer Rate	
Media to/from Buffer (Max.)	169 MB/s
Buffer to/from Host (Max.)	600 MB/s

RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 ¹⁴ bits
Controlled Ramp Load/Unload	> 600,000

ACOUSTICS

Idle	2.5 Bel
Performance Seek	2.7 Bel

POWER REQUIREMENTS

Voltage	+5V ± 5%
Spin-up Current (Max.)	1000 mA
Read/Write (AVG) ³	2.3 W
Low Power Idle (AVG)	0.7 W
Standby (AVG)	0.18 W
Sleep (AVG)	0.18 W

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	0 ~ 60 °C
Non-operating	-40 ~ 70 °C
Humidity (non-condensing)	
Operating	5-90 %
Non-operating	5-95 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	300 G
Non-operating, 1ms	900 G
Vibration (10-500 Hz , Random)	
Operating	1.5 Grms
Altitude (relative to sea level)	
Operating	-304.8 m to 3,048 m
Non-operating	-304.8 m to 12,192 m

PHYSICAL DIMENSION

Height	9.5 ± 0.2 mm (0.374 ± 0.008 in)
Width	69.85 ± 0.25 mm (2.75 ± 0.010 in)
Length	100.35 +0.2/ -0.25 mm (3.951+0.008/ -0.010 in)
Weight (max.)	130 g (0.29 lb)

* Note: Design and specifications are subject to change without prior notice.

1. 1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes
Accessible capacity may vary as some OS uses binary numbering system for reported capacity
2. Power-on to drive ready
3. Read/Write operation at OD for 32 sectors.



2.5" HDD product specification Rev 1.0
Match with product manual Rev 1.0

© 2013 Seagate Technology LLC. All rights reserved. Seagate and Seagate Technology are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Momentum is either a trademark or registered trademark of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors. The export or re-export of hardware or software containing encryption may be regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit www.bis.doc.gov), and controlled for import and use outside of the U.S. Seagate reserves the right to change, without notice, product offerings or specifications. SSM9T-SATA-100736112a September 04, 2013