

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.

- 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

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