

# Spinpoint™ M9TU

USB 3.0



Capacity	1.5TB	2TB	Remark
Models	ST1500LM008	ST2000LM005	

## FEATURES

- Max. 667GB formatted capacity per disk
- TuMR/PMR head with FOD technology
- USB 3.0 Gb/s Interface support
- Load/Unload Head Technology
- SilentSeek™
- NoiseGuard™

### DRIVE CONFIGURATION

Capacity <sup>1</sup>	1.5TB, 2TB
Interface	USB 3.0
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) <sup>2</sup>	3.5 sec
Data Transfer Rate	
Media to/from Buffer (Max.)	169 MB/s
Buffer to/from Host (Max.)	625 MB/s

### RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 <sup>14</sup> 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.)	750 mA
Read/Write (AVG) <sup>3</sup>	2.3 W
Low Power Idle (AVG)	0.7 W
Standby (AVG)	0.18 W
Sleep (AVG)	0.18 W

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature</b>	
Operating	0 ~ 60 °C
Non-operating	-40 ~ 70 °C
<b>Humidity (non-condensing)</b>	
Operating	5-90 %
Non-operating	5-95 %
<b>Linear Shock (1/2 sine pulse)</b>	
Operating, 2ms	300 G
Non-operating, 1ms	800 G
<b>Vibration (10-500 Hz , Random)</b>	
Operating	1.5 Grms
<b>Altitude (relative to sea level)</b>	
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	103.9 ± 0.4 mm (4.091 ± 0.016 in)
Weight (max.)	130 g (0.287 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

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