

# Mobile SATA Spinpoint M7



Capacity		500GB	400GB	320GB	250GB	160GB	120GB
Model	8 MB	HM500JI	HM400JI	HM320II	HM250HI	HM161HI	HM120GI

## FEATURES

- Max. 250GB formatted capacity per disk
- SATA Native Command Queuing Feature
- TuMR/PMR head with FOD technology
- Serial ATA 3.0Gbps Interface Support
- Load/Unload Head Technology
- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

### DRIVE CONFIGURATION

Capacity <sup>1</sup>	500/400/320/250/160/120GB
Interface	SATA 3.0Gbps
Buffer DRAM Size <sup>2</sup>	8 MB
Byte per Sector	512
Rotational Speed	5,400 RPM

### PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	12 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	138MB/s
Buffer to/from Host (Max.)	300MB/s
Drive Ready Time (typical) <sup>3</sup>	4 sec

### RELIABILITY SPECIFICATIONS

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

### ACOUSTICS

Idle (typical)	2.4 Bel
Performance Seek (typical)	2.6 Bel

### POWER REQUIREMENTS

Voltage	+5V±5%
Spin-up Current (Max.)	1000 mA
Seek (avg.) <sup>4</sup>	2.5 W
Read/Write (avg.)	2.5 W
Low Power Idle (avg.)	0.85 W
Standby (avg.)	0.25 W
Sleep (avg.)	0.2 W

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature</b>	
Operating	5 ~ 55 °C
Non-operating	-40 ~ 70 °C
<b>Humidity (non-condensing)</b>	
Operating	8 ~ 90 %
Non-operating	5 ~ 95 %
<b>Linear Shock (1/2 sine pulse)</b>	
Operating(2ms) <sup>5</sup>	400 G
Non-operating(1ms)	900 G
<b>Vibration</b>	
Operating(Random,10~500Hz)	1.5 Grms
<b>Altitude (relative to sea level)</b>	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

### PHYSICAL DIMENSION

Height	9.5 mm
Width	69.85 mm
Length	100 mm
Weight (max.)	105 g

\* 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 A small portion of the 8MB buffer memory is reserved for firmware use

3 Power-On to Drive Ready

4 30% duty cycle, random seek

5. On Track Read Operation



2.5" HDD product specification Rev 0.5  
Match with product manual Rev 00

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