

# Mobile SATA Spinpoint MP2



Capacity		250GB	200GB	160GB	120GB	100GB	80GB
Model	Non-FFS	HM250JJ	HM200JJ	HM160JJ	HM120HJ	HM100HJ	HM080HJ
	FFS	HM251JJ	HM201JJ	HM161JJ	HM121HJ	HM101HJ	HM081HJ

## FEATURES

- Max. 125GB 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™
- Free Fall Sensor(optional)

### DRIVE CONFIGURATION

<b>Capacity<sup>1</sup></b>	80GB/100GB/120GB/160GB/200GB/250GB
<b>Interface</b>	SATA 3.0Gbps
<b>Buffer DRAM Size<sup>2</sup></b>	16 MB
<b>Byte per Sector</b>	512
<b>Rotational Speed</b>	7,200 RPM

### PERFORMANCE SPECIFICATIONS

<b>Average Seek time (typical)</b>	11ms
<b>Average Latency</b>	4.17 ms
<b>Data Transfer Rate</b>	
Media to/from Buffer (Max.)	1.1 Gbits/s
Buffer to/from Host (Max.)	300MB/s
<b>Drive Ready Time (typical)<sup>3</sup></b>	4 sec

### RELIABILITY SPECIFICATIONS

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

### ACOUSTICS

<b>Idle</b>	80,100,120GB : 2.4Bel
	160,200,250GB : 2.6Bel
<b>Performance Seek</b>	80,100,120GB : 2.6Bel
	160,200,250GB : 2.8Bel

### POWER REQUIREMENTS

<b>Voltage</b>	+5V±5%
<b>Spin-up Current (Max.)</b>	1000 mA
<b>Seek (avg.)<sup>4</sup></b>	2.65 W
<b>Read/Write (avg.)</b>	2.55 W
<b>Low Power Idle (avg.)</b>	0.8 W
<b>Standby (avg.)</b>	0.25 W
<b>Sleep (avg.)</b>	0.20 W

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature</b>	
Operating	5 ~ 55 °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)	325 G
Non-operating(1ms)	900 G
<b>Vibration</b>	
Operating(Random,10~500Hz)	0.7Grms
<b>Altitude (relative to sea level)</b>	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

### PHYSICAL DIMENSION

<b>Height (Max.)</b>	9.5 mm
<b>Width</b>	69.85 mm
<b>Length</b>	100 mm
<b>Weight (avg.)</b>	115 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 16MB buffer memory is reserved for firmware use.

3. Power-On to Drive Ready

4. 30% duty cycle, random seek

※ . Unless otherwise specified, specifications are for 250GB configuration

