

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

Capacity¹	80GB/100GB/120GB/160GB/200GB/250GB
Interface	SATA 3.0Gbps
Buffer DRAM Size²	16 MB
Byte per Sector	512
Rotational Speed	7,200 RPM

PERFORMANCE SPECIFICATIONS

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

RELIABILITY SPECIFICATIONS

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

ACOUSTICS

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

POWER REQUIREMENTS

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

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 55 °C
Non-operating	-40 ~ 70 °C
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating(2ms)	325 G
Non-operating(1ms)	900 G
Vibration	
Operating(Random,10~500Hz)	0.7Grms
Altitude (relative to sea level)	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

PHYSICAL DIMENSION

Height (Max.)	9.5 mm
Width	69.85 mm
Length	100 mm
Weight (avg.)	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



2.5" HDD product specification Rev 0.2
Match with product Manual Rev 01

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