Mobile SATA
Spinpoint M8_Preliminary

Capacity	320GB	500GB	750GB	1TB
Model	HN-M320MBB	HN-M500MBB	HN-M750MBB	HN-M101MBB

FEATURES

- Max. 500GB 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[1]	320 / 500 / 750GB / 1TB
Interface	SATA 3.0Gbps
Buffer DRAM Size[2]	8 MB
Rotational Speed	5,400 RPM

PERFORMANCE SPECIFICATIONS	
Average Seek time (typical)	12 ms
Data Transfer Rate	
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
Load/Unload Cycles(Ambient)	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.)[4]	2.0 W
Read/Write (avg.)	2.5 W
Low Power Idle (avg.)	0.7 W
Standby (avg.)	0.2 W
Sleep (avg.)	0.2 W

ENVIRONMENTAL SPECIFICATIONS	
Temperature	
Operating	5 ~ 55 ℃
Non-operating	-40 ~ 70 ℃
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating(2ms)[5]	325 G
Non-operating(1ms)	900 G
Vibration	
Operating(Random,10~500Hz)	1.5 Grms
Altitude (relative to sea level)	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

PHYSICAL DIMENSION	
Height	9.5 mm
Width	69.85 mm
Length	100.3 mm
Weight (max.)	107 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