Mobile PATA
Spinpoint M5P

SPINPOINT

Capacity		60GB	80GB	120GB	160GB
Model	8 MB	HM061GC	HM080GC	HM121HC	HM160HC

FEATURES

- Max. 160GB formatted capacity per disk
- Ultra DMA Mode 5(UDMA100) Compatible
- TuMR/PMR head with FOD technology
- Support Automatic Acoustic Management(AAM)
- Load/Unload Head Technology

- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

DRIVE CONFIGURATION

Capacity	60GB/80GB/120GB/160GB
Interface	UDMA 100
Buffer DRAM Size^2	8 MB
Byte per Sector	512
Rotational Speed	5,400 RPM

PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	12 ms
Average Latency	5.6 ms
Media Transfer Rate (Max.)	826Mbits/s
Interface Transfer Rate (Max.)	100MB/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 (typical)	2.2 Bel
Performance Seek (typical)	2.4 Bel

POWER REQUIREMENTS

Voltage	+5V±5%
Spin-up Current (Max.)	900 mA
Seek (typical)^4	2.1 W
Read/Write (typical)	2.0 W
Low Power Idle (typical)	0.6 W
Standby (typical)	0.25 W
Sleep (typical)	0.1 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)	325 G
Non-operating(1ms)	1000 G
Vibration	
Operating(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.)	96 g

* Note : Design and specifications are subject to change without prior notice.

1.1MB = 1,000,000 Bytes, 1GB = 1 Performance Seek 2.1 Bel

   Accessible capacity may vary as some OS uses binary numbering system

   for reported capacity

2 Upper 128 KB is used for firmware

3 Power-On to Drive Ready

4 30% duty cycle, random seek

5 Power requirements based on enabled DIPM & 1.5Gbps speed