

Mobile SATA Spinpoint MP4



| Capacity | | 250GB | 320GB | 500GB | 640GB |
|----------|-------|---------|---------|---------|---------|
| Model | 16 MB | HM250HJ | HM320HJ | HM500JJ | HM640JJ |

FEATURES

- Max. 320GB 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 | 250 / 320 / 500 / 640 GB |
| Interface | SATA 3.0Gbps |
| Buffer DRAM Size ² | 16 MB |
| Rotational Speed | 7,200 RPM |

PERFORMANCE SPECIFICATIONS

| | |
|---|----------|
| Average Seek time (typical) | 11 ms |
| Average Latency | 4.13 ms |
| Data Transfer Rate | |
| Media to/from Buffer (Max.) | 189 MB/s |
| Buffer to/from Host (Max.) | 300 MB/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 (1D/2D) | 2.4 / 2.6 Bel |
| Performance Seek (1D/2D) | 2.6 / 2.8 Bel |

POWER REQUIREMENTS

| | |
|-------------------------|---------|
| Voltage | +5V±5% |
| Spin-up Current (Max.) | 1000 mA |
| Seek (AVG) ⁴ | 2 W |
| Read/Write (AVG) | 2.5 W |
| Low Power Idle (AVG) | 0.85 W |
| Standby (AVG) | 0.2 W |
| Sleep (AVG) | 0.2 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) ⁵ | 325 G |
| Non-operating, 1ms | 900 G |
| Vibration (10~500 Hz, Ramdom) | |
| Operating | 1.5G |
| 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 1/2D(max.) | 110 / 119 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 1.0
Match with product manual Rev 00

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