

Ultra mobile CEATA Spinpoint N2B



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|----------|-------------|
| Capacity | 30GB |
| Model | HS03SHQ |

FEATURES

- MAX.80GB Formatted Capacity Per Disk
- High Speed Digital Signal Processor Based Architecture
- Low Power HDC
- Advanced Power Management Control
- Fluid Dynamic Bearing Spindle Motor Technology
- ATA S.M.A.R.T Compliant
- ATA 28-bit Address Feature Set
- Multi-Burst On-The-Fly Error Correction
- SilentSeek™
- Free Fall Sensor (optional)

DRIVE CONFIGURATION

| | |
|------------------|----------------|
| Capacity | 30 GB |
| Interface | CEATA |
| Rotational Speed | 4200 RPM class |
| Buffer DRAM Size | 2 MB |
| Byte per Sector | 512 |

PERFORMANCE SPECIFICATION

| | |
|--------------------------------|----------|
| Average Seek time (typical) | 15.0 ms |
| Average Latency | 8.3 ms |
| Media Transfer Rate (Max.) | 458 Mb/s |
| Interface Transfer Rate (Max.) | 52 MB/s |
| Drive Ready Time (typical) | 2.0 sec |

RELIABILITY SPECIFICATION

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|-----------------------------|-----------------------------------|
| Non-recoverable Read Error | 1 sector in 10 ¹³ bits |
| Controlled Ramp Load/Unload | 600,000 |

ACOUSTICS

| | |
|------------------|---------|
| Idle | 1.6 Bel |
| Performance Seek | 2.2 Bel |

POWER REQUIREMENTS

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|------------------------|-----------|
| Voltage | +3.3V ±5% |
| Spin-up Current (Max.) | 400 mA |
| Seek (typical) | 0.8 W |
| Read/Write (typical) | 0.9 W |
| Idle (typical) | 0.30 W |
| Standby (typical) | 0.07 W |
| Sleep (typical) | 0.07 W |

ENVIRONMENTAL SPECIFICATIONS

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|---|------------------|
| Temperature | |
| Operating | 5 ~ 60 °C |
| Non-operating | -40 ~ 85 °C |
| Humidity (non-condensing) | |
| Operating | 8 ~ 90 % |
| Non-operating | 8 ~ 90 % |
| Linear Shock (1/2 sine pulse) | |
| Operating, 2ms | 600 G |
| Non-operating, 1ms | 1500 G |
| Vibration | |
| Operating | 0.67 Grms |
| Altitude (relative to sea level) | |
| Operating | -300 to 3,000 m |
| Non-operating | -400 to 15,000 m |

PHYSICAL DIMENSION

| | |
|---------------|---------|
| Height | 5.0 mm |
| Width | 71.0 mm |
| Length | 54.0 mm |
| Weight (Max.) | 48 g |

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

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.

* A small portion of the (2MB) buffer memory is reserved for firmware use.

