

Ultra mobile CEATA Spinpoint N2B



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

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

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

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.

