

# Ultra mobile USB Spinpoint N2B



<b>Capacity</b>	<b>120GB</b>
<b>Model</b>	HS120JR

## FEATURES

- MAX.80GB Formatted Capacity Per Disk
- Bus Power Usage
- Compatible MAC OS higher
- Support Plug and Play
- Host Swappable
- Direct Bootable under Windows 2000 version up
- High Speed Digital Signal Processor Based Architecture
- 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

<b>Capacity</b>	120 GB
<b>Interface</b>	USB 2.0
<b>Rotational Speed</b>	4200 RPM class
<b>Buffer DRAM Size</b>	2 MB
<b>Byte per Sector</b>	512

### PERFORMANCE SPECIFICATION

<b>Average Seek time (typical)</b>	15.0 ms
<b>Average Latency</b>	8.3 ms
<b>Media Transfer Rate (Max.)</b>	458 Mb/s
<b>Interface Transfer Rate (Max.)</b>	
<b>USB 2.0</b>	480 Mb/s
<b>Drive Ready Time (typical)</b>	3.0 sec

### RELIABILITY SPECIFICATION

<b>Non-recoverable Read Error</b>	1 sector in 10 <sup>13</sup> bits
<b>Controlled Ramp Load/Unload</b>	600,000

### ACOUSTICS

<b>Idle</b>	1.8 Bel
<b>Performance Seek</b>	2.4 Bel

### POWER REQUIREMENTS

<b>Voltage</b>	+5V ±5%
<b>Spin-up Current (Max.)</b>	350 mA
<b>Seek (typical)</b>	1.10 W
<b>Read/Write (typical)</b>	1.20 W
<b>Idle (typical)</b>	0.45 W
<b>Standby (typical)</b>	0.25 W
<b>Sleep (typical)</b>	0.25 W

### ENVIRONMENTAL SPECIFICATIONS

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

### PHYSICAL DIMENSION

<b>Height</b>	8.0 mm
<b>Width</b>	71.0 mm
<b>Length</b>	54.0 mm
<b>Weight (Max.)</b>	59 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.



1.8" HDD USB product specification Rev.06  
Match with USB product manual Rev 01

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