

# Ultra mobile USB Spinpoint N2B



|          |              |
|----------|--------------|
| Capacity | <b>120GB</b> |
| Model    | 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

|                  |                |
|------------------|----------------|
| Capacity         | 120 GB         |
| Interface        | USB 2.0        |
| 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.) |          |
| USB 2.0                        | 480 Mb/s |
| Drive Ready Time (typical)     | 3.0 sec  |

### RELIABILITY SPECIFICATION

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

### ACOUSTICS

|                  |         |
|------------------|---------|
| Idle             | 1.8 Bel |
| Performance Seek | 2.4 Bel |

### POWER REQUIREMENTS

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

|               |         |
|---------------|---------|
| Height        | 8.0 mm  |
| Width         | 71.0 mm |
| Length        | 54.0 mm |
| Weight (Max.) | 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.

