

# Ultra mobile USB Spinpoint A1



Capacity		20GB	30GB	40GB
Model	(USB)	HU020HS	HU030HS	HU040HS

## FEATURES

- Max. 40 GB Formatted Capacity Per Disk
- Bus Power Usage
- Compatible MAC OS higher
- Support Plug and Play
- Host Swappable
- Direct Bootable under Window 2000 version up
- SilentSeek™
- Free Fall Sensor (Optional)

### DRIVE CONFIGURATION

Interface	USB
Capacity	20/30/40
Rotational Speed	3,600 rpm
Sector Size (Bytes)	512
Areal density (max. Gbit/inch <sup>2</sup> )	266

### PERFORMANCE SPECIFICATIONS

Data Buffer	2MB
Average Read Seek time (typical)	25.0ms
Average Latency	8.3ms
Media Transfer Rate (max.)	278 Mb/s
Interface Transfer Rate (max.)	
USB 2.0	480 Mb/s
Drive Ready Time (typical)	2.0 sec

### RELIABILITY SPECIFICATIONS

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

### ACOUSTICS(Average Sound Power)

Idle	1.6 Bel
Performance Seek	2.1 Bel

### POWER REQUIREMENTS

Voltage	+5.0V ±5%
Spin-up Current (Max.)	350 mA
Seek (typical)	0.60 W
Read/Write (typical)	0.75 W
Idle (typical)	0.20 W
Standby (typical)	0.07 W
Sleep (typical)	0.05 W

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature</b>	
Operating	0 ~ 60 °C
Non-operating	-20 ~ 85 °C
<b>Humidity (non-condensing)</b>	
Operating	8 ~ 90 %
Non-operating	8 ~ 90 %
<b>Linear Shock (1/2 sine pulse)</b>	
Operating	650 G
Non-operating	1600 G
<b>Vibration</b>	
Operating	0.67 Grms
<b>Altitude (relative to sea level)</b>	
Operating	-1,000 to 10,000 ft
Non-operating	-1,300 to 50,000 ft

### PHYSICAL DIMENSION

Height	5.0 mm
Width	42.8 mm
Length	36.4 mm
Weight (max.)	20 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 2MB buffer memory is reserved for firmware use

