Ultra mobile SATA
Spinpoint N1

Capacity	40GB	60GB	80GB	100GB	120GB
Model	HS04XHF	HS062HF	HS08XJF	HS10XJF	HS122JF

FEATURES

- MAX.60GB Formatted Capacity Per Disk
- High Speed Digital Singal Processor Based Architecture
- Low Power HDC
- Advanced Power Management Control
- Fluid Dynamic Bearing Spindle Motor Technology
- SATA S.M.A.R.T Compliant
- SATA 48-bit Address Feature Set
- Multi-Burst On-The-Fly Error Correction
- SilentSeek™
- Free Fall Sensor (optional)

DRIVE CONFIGURATION

Capacity	40 / 60 / 80 / 100 / 120 GB
Interface	SATA 1
Rotational Speed	5400 RPM class
Buffer DRAM Size	8 MB
Byte per Sector	512

PERFORMANCE SPECIFICATION

Average Seek time (typical)	14.0 ms
Average Latency	8.3 ms
Media Transfer Rate (Max.)	550 Mb/s
Interface Transfer Rate (Max.)	1.5 Gbps
Drive Reday Time (typical)	2.5 sec

RELIABILITY SPECIFICATION

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

ACOUSTICS

Idle	
40/60GB	1.6 Bel
80/100/120GB	1.8 Bel
Performance Seek	
40/60GB	2.2 Bel
80/100/120GB	2.4 Bel

POWER REQUIREMENTS

Voltage	+3.3V ±5%
Spin-up Current (Max.)	485 mA
Seek (typical)	1.30 W
Read/Write (typical)	1.45 W
Idle (typical)	0.40 W
Standby (typical)	0.10 W
Sleep (typical)	0.10 W

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 60 ℃
Non-operating	-40 ~ 85 ℃
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 (Max.)	
40/60GB	5.0 mm
80/100/120GB	8.0 mm
Width	78.5 mm
Length	54.0 mm
Weight (Max.)	
40/60GB	51 g
80/100/120GB	62 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.