

# Desktop Class Spinpoint F4



Capacity		160GB	250GB	320GB
Model	8MB	HD165GJ	HD255GJ	
	16MB	HD166GJ	HD256GJ	HD322GJ

## FEATURES

- Formatted capacity is 320GB/Disk formatted capacity
- Serial ATA 3.0Gbps Interface Support
- Improved recording stability over temperature with PMR
- Advanced dynamic FOD control for best data integrity
- Intelligent compensation of external disturbance
- SATA Native Command Queuing Feature
- Device Initiated SATA Power Management
- Rotational vibration sensor(Optional)
- Environment friendly product with RoHS compliance
- Improved performance with dual-ARM based firmware
- ATA S.M.A.R.T. Compliant
- ATA Automatic Acoustic Management Feature
- ATA 48-bit Address Feature
- ATA Device Configuration Overlay Feature
- NoiseGuard™
- SilentSeek™

## DRIVE CONFIGURATION

Interface	Serial ATA 3.0Gbps
Buffer DRAM Size <sup>2</sup>	8 / 16
Byte per Sector	512 bytes
Rotational Speed	7,200 RPM

## PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	8.9 ms
Average Latency	4.17 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	285 MB/sec
Buffer to/from Host (Max.)	300 MB/sec
Drive Ready Time (typical)	8 sec

## RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 <sup>15</sup> bits
Start/Stop Cycles	50,000

## ACOUSTICS<sup>3</sup>

Idle(Typ.)	2.6 Bel
Performance Seek (Typ.)	2.8 Bel

## POWER REQUIREMENTS

Voltage	+5V±5%, +12V±10%
Capacity <sup>1</sup>	<b>160-320GB</b>
Spin-up Current (Max.)	2.0A
Seek (Average) <sup>4</sup>	5.1W
Read/Write (Average)	5.0W
Idle (Average)	4.2W
Standby (Average)	0.8W
Sleep (Average)	0.8W

\* subject to change

## ENVIRONMENTAL SPECIFICATIONS

### Temperature

Operating	0 ~ 60 °C
Non-operating	-40 ~ 70 °C

### Humidity (non-condensing)

Operating	5 ~ 90 %
Non-operating	5 ~ 95 %

### Linear Shock (1/2 sine pulse)

Operating (2.0ms)	70 G
Non-operating (2.0ms)	350 G

### Altitude (relative to sea level)

Operating	-300 to 3,000 m
Non-operating	-300 to 12,000 m

## PHYSICAL DIMENSION

Height (Max.)	26.1 mm
Width	101.5 mm
Length	147.0 mm
Weight (Typ.)	430 g

\* Note : Design and specifications are subject to change without prior notice.

1.1MB = 1,000,000 Bytes, 1GB=1,000,000,000 Bytes

2. A small portion of the 8/16/32MB buffer memory is reserved for firmware use

3 Average value with a high performance cover.

4 Random seek with 30% duty cycle.(Average value)

