Consumer Class Spinpoint F3EG



0 ~ 60 °C

5 ~ 90 %

5 ~ 95 %

Capacity 1.5TB	2TB
Model [32MB] HD153WI	HD203WI

FEATURES

- 500GB Formatted Capacity Per Disk
- 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
- · Shock & Rotational vibration sensor

DRIVE CONFIGURATION

 Environment friendly product 	with RoHS compliance
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- 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

ENVIRONMENTAL SPECIFICATIONS

- NoiseGuard™
- SilentSeek™

Serial ATA 3.0Gbps
32 MB
512 bytes

PERFORMANCE SPECIFICATIONS	
Average Seek time (typical)	8.9 ms
Average Latency	5.56 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	135 MB/sec
Buffer to/from Host (Max.)	300 MB/sec
Drive Ready Time (typical)	15 sec

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RELIABILITY SPECIFICATIONS	
Non-recoverable Read Error	1 sector in 10 ¹⁵ bits
Load/Unload Cycles (ambient)	300,000
ACOUSTIC Noise	

2.6/2.7 Bel

Performance Seek (typ/max)	2.9/3.1 Bel
Quiet seek (typ/max) POWER REQUIREMENTS	2.8/2.9 Bel
Voltage	+5V±5%, +12V±10%
Capacity ¹	2 TB
Spin-up Current (Max.) Random Seek ³ (AVG) Read/Write On Track (AVG) Idle (AVG) Standby (AVG) Sleep (AVG)	2.0A 7.1W 6.2W 5.4W 1W

Temperature Operating Non-operating

-40 ~ 70 °C **Humidity (non-condensing)**

Operating Non-operating

Linear Shock (1/2 sine pulse) Operating (2.0ms) 70 G Non-operating (1.0ms) 300 G

Altitude (relative to sea level)

-1,000 to 10,000 m Operating -1,000 to 40,000 m Non-operating

PHYSICAL DIMENSION	
Height (Max.)	26.1 mm
Width	101.6 mm
Length	147.0 mm
Weight (avg.)	690g

- * 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 32MB buffer memory is reserved for firmware use
- 3 Random seek with 30% duty cycle.(Average value)



Idle (typ/max)