Desktop Class Spinpoint F1 DT



Сара	acity	80GB	160GB	250GB	320GB	500GB	640GB	750GB	1TB
Model	8MB	HD083GJ	HD161GJ	HD251HJ	HD321HJ	HD501IJ			
	16MB		HD162GJ	HD252HJ	HD322HJ	HD502IJ	HD642JJ		
	32MB							HD753LJ	HD103UJ

FEATURES

- MAX.334GB 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
- Rotational vibration sensort

- 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

Serial ATA 3.0Gbps
8 / 16 / 32 MB
512 bytes
7,200 RPM

PERFORMANCE SPECIFICATIONS

	8.9 ms
	4.17 ms
17	5 MB/sec
30	0 MB/sec
160~320GB	8 sec
500~640GB	12 sec
750~1000GB	
	30 160~320GB 500~640GB

RELIABILITY SPECIFICATIONS

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

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Idle	160~320GB	2.45 Bel
	500-1000GB	2.70 Bel
Performance Seek	250/320GE	2.80 Bel
	500-1000G	2.90 Bel

POWER REQUIREMENTS

Voltage	+5V±5%, +12V±10%			
Capacity ¹	160GB 250GB 320GB	500GB 650GB	750GB 1000GB	
Spin-up Current (Max	2.0A	2.3A	2.4A	
Seek (typical) ⁴	5.7W	6.9W	7.6W	
Read/Write (typical)	6.1W	7.4W	8.4W	
Idle (typical)	4.4W	5.7W	6.7W	
Standby (typical)	0.7/1W	0.7/1W	0.7/1W	
Sleep (typical)	0.7/1W	0.7/1W	0.7/1W	

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 70G
Non-operating 160~320GB 350 G
500~1000GB 300 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 (avg.)	160~320GB	470 g
	500/640GB	610 g
	750/1000GB	650 g

- $\ensuremath{^{\star}}$ Note : Design and specifications are subject to change without prior not
- 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)

