Enterprise Performance 10K HDD

Data Sheet

The Perfect Match of High Capacity and High Performance

- Delivers 1,200GB of high-performance data access for write-intensive applications

- 2× the capacity of legacy 3.5 inch, 15K RPM hard drives at the same performance (204MB/s SDR) within a lower power envelope

- PowerChoice™ technology for T10-compliant power management enables IT organisations to tailor systems for enhanced power consumption.

- Seagate® RAID Rebuild™ technology option makes RAID recovery faster and safer.

- Protection Information (PI) protects against inadvertent data change[1]

- Self-Encrypting Drive (SED) models can be used as standard drives or as part of a more secure solution

- Seagate Instant Secure Erase (ISE) technology makes it safe, fast and easy to retire or repurpose drives

- High capacity and small footprint enable data centres to keep pace with data growth and optimise data centre premises

- FIPS 140-2, Level 2 certified SED models — only from Seagate — make FIPS 140-2 compliance quick and easy for US and Canadian government agencies[2,3]

- Seagate Unified Storage architecture reduces complexity and cost by converging disparate interfaces, form factors and security standards

Best-fit Applications

- Mission-critical servers and external storage arrays

- Power- and space-constrained data centres

- Green IT and drive-retirement cost reduction initiatives

- Compliance or data security initiatives

- Migration from 3.5 inch drive systems to next-generation technology

[1] Protection Information (PI) feature requires PI-compliant host or controller support.

[2] Not all drives may be available in all countries. SED and SED FIPS 140-2 validated drives may use TCG-compliant host or controller support.

[3] FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at http://csrc.nist.gov/groups/STM/cmvp/validation.html#05

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Specifications	1,200GB[1,2]
SED Model Number	ST1200MM0017
SED FIPS 140-2 Model Number	ST1200MM0027[3]
Model Name	Enterprise Performance 10K HDD v7
Interface	6Gb/s SAS
Capacity	
Formatted 512 Bytes/Sector (GB)	1,200
External Transfer Rate (MB/s)	600
Performance	
Spindle Speed (RPM)	10K
Average Latency (ms)	2.9
Sustained Transfer Rate Outer to Inner Diameter (MB/s)	204 to 125
Cache, Multi-segmented (MB)	64
Configuration/Reliability	
Discs	4
Heads	8
Non-recoverable Read Errors per Bits Read	1 per 10^{16}
Annualised Failure Rate (AFR)	0.44%
Power Management	
Typical Op (A) +5V/+12V	0.38/0.51
Power Idling (W)	4.6
Environmental	
Temperature, Operating (°C)	5 to 55
Temperature, Non-operating (°C)	−40 to 70
Shock, Operating: 11ms (Gs)	40
Shock, Non-operating, 2ms (Gs)	400
Acoustics Idling (bels — sound power)	3.4
Vibration, Operating: <500Hz (Gs)	0.5
Vibration, Non-operating: <500Hz (Gs)	3.0
Physical	
Height (in/mm, max)[4]	0.591/15.00
Width (in/mm, max)[4]	2.760/70.10
Depth (in/mm, max)[4]	3.955/100.45
Weight (lb/kg)	0.450/0.204
Carton Unit Quantity	30
Cartons per Pallet	50
Cartons per Layer	10
Warranty	
Limited Warranty (years)	5

[1] One gigabyte, or GB, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

[2] Not all drives may be available in all countries. SED and SED FIPS 140-2 validated drives may use TCG-compliant host or controller support.

[3] FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at http://csrc.nist.gov/groups/STM/cmvp/validation.html#05

[4] These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8223 (SAS models).

Seagate Secure®

Unified Storage™

Seagate 5-Year Warranty

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