

Enterprise Performance 10K HDD

Data Sheet

The Perfect Match of High Capacity and High Performance

- Delivers 1200GB 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 organizations 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 enables data centers to keep pace with data growth and optimize data center real estate.
- FIPS 140-2, Level 2 certified SED models—only from Seagate—make FIPS 140-2 compliance quick and easy for U.S. and Canadian government agencies.^{2,3}
- Seagate Unified Storage architecture reduces complexity and costs by converging disparate interfaces, form factors and security standards.

Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- 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 can 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	1200GB ^{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)	1200
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) Cache, Multisegmented (MB)	204 to 125 64
Configuration/Reliability	
Disks	4
Heads	8
Nonrecoverable Read Errors per Bits Read	1 per 10E16
Annualized Failure Rate (AFR)	0.44%
Power Management	
Typical Op (A) +5V/+12V	0.38/0.51
Power Idle (W)	4.6
Environmental	
Temperature, Operating (°C)	5 to 55
Temperature, Nonoperating (°C)	-40 to 70
Shock, Operating: 11ms (Gs)	40
Shock, Nonoperating: 2ms (Gs)	400
Acoustics Idle (bels—sound power)	3.4
Vibration, Operating: <500Hz (Gs)	0.5
Vibration, Nonoperating: <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 can 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).



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