

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 change¹
- 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>

Enterprise Performance 10K HDD



| 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/cmpv/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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