



DATA SHEET

Trusted. Efficient. Versatile.

Exos 7E8

The Seagate[®] Exos[™] 7E8 enterprise hard drive confidently stores up to 8 TB of data without sacrificing performance. The secure, high-capacity, high-performance drives are optimised for demanding enterprise bulk data applications.





Best-Fit Applications

- Hyperscale applications/cloud data centres
- Massive scale-out data centres
- OLTP and HPC applications
- High-capacity density RAID storage
- Mainstream enterprise external storage arrays
- Distributed file systems, including Hadoop and Ceph
- Enterprise backup and restore D2D, virtual tape
- Centralised surveillance



Enterprise Drive for Bulk Data Applications

Exos 7E8 hard drives support up to 8 TB per drive, ¹ offering bulk data storage for data centre infrastructures requiring a highly reliable enterprise hard drive. Exos 7E8 provides cost-effective, reliable access to unstructured data. Built on field-proven 10th-generation conventional magnetic recording (CMR) technology, the Exos 7E8 drive helps to catalyse the datasphere, enabling data centre architects and IT professionals to deliver trusted performance, rock-solid reliability, ironclad security, and low TCO for demanding 24×7 operations.

Robust Bulk Data Storage for a 24×7 World

Exos 7E8 drives are backed by a 2 million hour MTBF rating and support workloads of 550 TB per year — $10\times$ that of desktop hard drives. With state-of-the-art cache, on-the-fly error-correction algorithms, and rotational vibration design, the Exos 7E8 helps ensure consistent performance in replicated and RAID multi-drive systems.

High Performance for Mainstream Data Centre Applications

Meet your storage workload requirements in the most efficient and cost-effective data centre footprint on the market today. The Exos 7E8 delivers easy integration into bulk storage systems with 12 Gb/s SAS and SATA 6 Gb/s interface options. With user-definable innovative technology advancements like PowerChoice™ and Seagate RAID Rebuild®, you can tailor your nearline storage requirements for even greater improvements in lowering your TCO.

Enhanced Reliability, Data Protection, and Security

Advanced security features help protect data where it lives — on the drive. Exos 7E8 prevents unauthorised drive access and safeguards stored data with security features that include Secure Downloads & Diagnostics, TCG-compliant Self-Encrypting Drive, and government-grade FIPS/Common Criteria tamper-resistant hard drive.² Seagate Secure™ drives simplify drive repurposing and disposal, help protect data-at-rest, and comply with corporate and federal data security mandates.

1 Seagate recommends validating your configuration with your HBA/RAID controller manufacturer to ensure full capacity capabilities. 2 Self-Encrypting Drives (SED) are not available in all models or countries. May require TCG-compliant host or controller support.





Grand	Specifications			512n SATA		
Parent Moder	•	6TB	/TR	1	2TB	1TR
Prevent Distance Model		 		+	+	+
Seegals Securi SED Model — STRODONADISA STRODONADISA CONTROLONADISA				 		
Seques Secure SED-FIFE Modes			_	_	-	
Production formation (170 DIP)	,	_	_	_	_	_
Presentant Inframetion (T10 DIF) — — — — — — — — — — — — — — — — — — —	Seagate Secure SED-FIPS Model		ST4000NM013A	ST3000NM004A	_	_
Humidity Sensor						
Super Parily Yes	Protection Information (T10 DIF)			+		+
Lever Hallogom Yes	Humidity Sensor	Yes	Yes	Yes	Yes	Yes
Power Charloagy	SuperParity	Yes	Yes	Yes	Yes	Yes
PowerBalanco Technology	Low Halogen	Yes	Yes	Yes	Yes	Yes
Cache, Multi-segmented (MB) 256 256 256 256 256 256 Advanced Wirte Caching (2ki Inerval NOR Risch) Yes Yes </td <td>PowerChoice[™] Technology</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td>	PowerChoice [™] Technology	Yes	Yes	Yes	Yes	Yes
Advanced Write Caching (28t Internal NOR Reah) **Relicitary (20th Internal NOR Reah) **Pose **Year	PowerBalance Technology	Yes	Yes	Yes	Yes	Yes
Nizraton, Non-operating: 10Hz to 500 Hz (Grms) 5 5 5 5 5	Cache, Multi-segmented (MB)	256	256	256	256	256
Vibration, Non-operating: 10 Hz to 500 Hz (Grins) 5 5 5 5 5 5	Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	Yes
Mean Time Between Failures (NTBF, hours) 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000	Reliability/Data Integrity					
Reliability Rating @ Full 24-7 Operation (AFR) 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.44% 0.4	Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5	5
Non-recoverable Read Errors per Bits Read	Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Power-Cn Hours per Year 8,780 8,760 8,760 9,760 8,760 Bytes per Sector 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 <td>Reliability Rating @ Full 24×7 Operation (AFR)</td> <td>0.44%</td> <td>0.44%</td> <td>0.44%</td> <td>0.44%</td> <td>0.44%</td>	Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%	0.44%
Syles per Sector S12 S13	Non-recoverable Read Errors per Bits Read	_	_	_	_	_
Warranty, Limited (years) 5 5 5 5 5 Performose Spiride Speed (RPM) 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 8,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200	Power-On Hours per Year	8,760	8,760	8,760	8,760	8,760
Performance Spindle Speed (RPM) 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200	Bytes per Sector	512	512	512	512	512
Spinde Speed (RPM) 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200	Warranty, Limited (years)	5	5	5	5	5
Interface Access Speed (Gb/s)	Performance					
Max. Sustained Transfer Rate OD 215MB/s 2125 2125 2125 2125 2125 2125 2125 2125 2125 2125 2125 2125 2125 2125	Spindle Speed (RPM)	7,200	7,200	7,200	7,200	7,200
Average Latency (ms) 4.16 4.16 4.16 4.16 4.16 4.16 4.16 4.16 4.16 Interface Ports Single Si	Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Interface Ports Single S	Max. Sustained Transfer Rate OD	215MB/s	215MB/s	215MB/s	215MB/s	215MB/s
Rotational Vibration @ 1,500 Hz (rad/s²) 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	Average Latency (ms)	4.16	4.16	4.16	4.16	4.16
Idle Power, Average (W) 7.1 5.38 5.38 4.48 4.48 Typical Operating, Random Read (W) 12.91 10.77 10.77 9.91 9.91 Power Supply Requirements +12 V and +5 V +12 V and +5 V +12 V and +5 V Temperature, Operating (°C) 5°C - 60°C 5°C - 60°C 5°C - 60°C 5°C - 60°C Shock, Operating 2 ms ReadWrite (Gs) 70/40 Gs 70/40 Gs 70/40 Gs 70/40 Gs Shock, Non-operating, (1 ms/2 ms) (Gs) 150/300 150/300 150/300 150/300 150/300 Thysical Height (in/mm, max) ² 1.028 in/26.1 mm 4.01 in/101.85 mm 4.01 in/101	Interface Ports	Single	Single	Single	Single	Single
Ide Power, Average (W) 7.1 5.38 5.38 4.48 4.48 Typical Operating, Random Read (W) 12.91 10.77 10.77 9.91 9.91 Power Supply Requirements +12 V and +5 V Environmental Temperature, Operating (°C) 5°C -60°C 5°C -60°C 5°C -60°C 5°C -60°C Shock, Operating 2 ms Read/Write (Gs) 70/40 Gs 70/40 Gs 70/40 Gs 70/40 Gs Shock, Non-operating, (1 ms/2 ms) (Gs) 150/300 150/300 150/300 150/300 150/300 150/300 Physical Height (in/mm, max)² 1.028 in/26.1 mm 4.01 in/101.85 mm 4.01 in/	Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5	12.5
Typical Operating, Random Read (W) 12.91 10.77 10.77 9.91 9.91 Power Supply Requirements +12 V and +5 V +12	Power Consumption					
Power Supply Requirements	Idle Power, Average (W)	7.1	5.38	5.38	4.48	4.48
Environmental	Typical Operating, Random Read (W)	12.91	10.77	10.77	9.91	9.91
Temperature, Operating (°C) 5°C –60°C 2°C 5°C –60°C 5°C –60°C 2°C 2°C 2°C 2°C 2°C 2°C 2°C 2	Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Shock, Operating 2 ms Read/Write (Gs) 70/40 Gs	Environmental					
Shock, Non-operating, (1 ms/2 ms) (Gs) 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300 150/300	Temperature, Operating (°C)	5°C-60°C	5°C-60°C	5°C-60°C	5°C-60°C	5°C - 60°C
Physical Height (in/mm, max)² 1.028 in/26.1 mm 4.01 in/101.85 mm 4.01 in	Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs
Height (in/mm, max)² 1.028 in/26.1 mm 4.01 in/101.85 mm 4.01 in/101.85 mm 4.01 in/101.85 mm 4.01 in/101.85 mm 5.787 in/147 mm 620 g/1.37 lb	Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300	150/300
Width (in/mm, max)² 4.01 in/101.85 mm 5.787 in/147 mm 620 g/1.37 lb	Physical					
Depth (in/mm, max) ² 5.787 in/147 mm Weight (lb/g) 716 g/1.58 lb 649 g/1.43 lb 649 g/1.43 lb 620 g/1.37 lb 620 g/1.37 lb Carton Unit Quantity 20 20 20 20 20	Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm
Weight (Ib/g) 716 g/1.58 lb 649 g/1.43 lb 649 g/1.43 lb 620 g/1.37 lb 620 g/1.37 lb Carton Unit Quantity 20 20 20 20 20	Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm
Carton Unit Quantity 20 20 20 20 20	Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm
Carton Unit Quantity 20 20 20 20 20	, , , ,	716 g/1.58 lb	649 g/1.43 lb	649 g/1.43 lb	620 g/1.37 lb	620 g/1.37 lb
	Carton Unit Quantity	20	20	20	20	20
	Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

² 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.





Specifications			512n SAS		
Capacity	6TB	4TB	3TB	2TB	1TB
Base Model	ST6000NM003A	ST4000NM003A	ST3000NM001A	ST2000NM003A	ST1000NM001A
	- ST 0000/11/1000A			- 312000NN000A	—
PowerBalance [™] Model		_	_	-	
Seagate Secure [™] SED Model ¹	_	_	_	_	_
Seagate Secure SED-FIPS Model 1		ST4000NM015A	ST3000NM005A	_	_
Features					
Protection Information (T10 DIF)	Yes	Yes	Yes	Yes	Yes
Humidity Sensor	Yes	Yes	Yes	Yes	Yes
SuperParity	Yes	Yes	Yes	Yes	Yes
Low Halogen	Yes	Yes	Yes	Yes	Yes
PowerChoice [™] Technology	Yes	Yes	Yes	Yes	Yes
PowerBalance Technology	Yes	Yes	Yes	Yes	Yes
Cache, Multi-segmented (MB)	256	256	256	256	256
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	Yes
Reliability/Data Integrity					
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5	5
Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%	0.44%
Non-recoverable Read Errors per Bits Read	_	_	_	_	_
Power-On Hours per Year	8,760	8,760	8,760	8,760	8,760
Bytes per Sector	512	512	512	512	512
Warranty, Limited (years)	5	5	5	5	5
Performance					
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	7,200
Interface Access Speed (Gb/s)	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0
Max. Sustained Transfer Rate OD	215MB/s	215MB/s	215MB/s	215MB/s	215MB/s
Average Latency (ms)	4.16	4.16	4.16	4.16	4.16
Interface Ports	Dual	Dual	Dual	Dual	Dual
Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5	12.5
Power Consumption	·	·			
Idle Power, Average (W)	7.97	5.94	5.94	4.86	4.86
Typical Operating, Random Read (W)	13.18	11.33	11.33	10.09	10.09
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental	·	·			
Temperature, Operating (°C)	5°C - 60°C	5°C – 60°C	5°C - 60°C	5°C - 60°C	5°C - 60°C
Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs
Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300	150/300
Physical					
Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm
Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm
Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm
Weight (Ib/g)	716 g/1.58 lb	649 g/1.43 lb	649 g/1.43 lb	620 g/1.37 lb	620 g/1.37 lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8
Cartoris per Fariet / Cartoris per Layer	40/0	40/0	40/0	40/0	40/0

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

² 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.





Specifications	512e/4KN (FastFormat [™]) SATA				
Capacity	8TB	6TB	4TB	2TB	
Base Model	ST8000NM000A	ST6000NM021A	ST4000NM002A	ST2000NM001A	
PowerBalance [™] Model	ST8000NM016A	ST6000NM037A	_	_	
Seagate Secure [™] SED Model ¹	_	_	_	_	
,	ST8000NM008A	ST6000NM025A	ST4000NM012A		
Seagate Secure SED-FIPS Model	STOUUNIVIUUOA	316000NW023A	314000NW012A	_	
Features					
Protection Information (T10 DIF)	— Von		— Von	Yes	
Humidity Sensor	Yes	Yes	Yes		
SuperParity	Yes Yes	Yes	Yes Yes	Yes Yes	
Low Halogen		Yes			
PowerChoice Technology	Yes	Yes	Yes	Yes	
PowerBalance Technology	Yes	Yes	Yes	Yes	
Cache, Multi-segmented (MB)	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Reliability/Data Integrity	_	_	<u>-</u>	_	
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5	
Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000	
Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%	
Non-recoverable Read Errors per Bits Read	_	1 sector per 10E15	_	_	
Power-On Hours per Year	8,760	8,760	8,760	8,760	
Bytes per Sector	512	512	512	512	
Warranty, Limited (years)	5	5	5	5	
Performance					
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	
Max. Sustained Transfer Rate OD	249MB/s	245MB/s	226MB/s	226MB/s	
Average Latency (ms)	4.16	4.16	4.16	4.16	
Interface Ports	Single	Single	Single	Single	
Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5	
Power Consumption					
Idle Power, Average (W)	7.64	6.2	5.4	4.42	
Typical Operating, Random Read (W)	12.81	11.67	10.89	9.83	
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	
Environmental					
Temperature, Operating (°C)	5°C -60°C	5°C -60°C	5°C -60°C	5°C-60°C	
Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	
Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300	
Physical					
Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	
Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	
Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	
Weight (lb/g)	716 g/1.58 lb	693 g/1.53 lb	649 g/1.43 lb	620 g/1.37 lb	
Carton Unit Quantity	20	20	20	20	
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

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Specifications		512e/4KN (FastFormat) SAS				
Capacity	8TB	6TB	4TB	2TB		
Base Model	ST8000NM001A	ST6000NM029A	ST4000NM005A	ST2000NM004A		
PowerBalance [™] Model	_	_	_	_		
	_	_		_		
Seagate Secure SED Model			OT 4000 11 404 44			
Seagate Secure SED-FIPS Model	ST8000NM010A	ST6000NM033A	ST4000NM014A	_		
Features						
Protection Information (T10 DIF)	Yes	Yes	Yes	Yes		
Humidity Sensor	Yes	Yes	Yes	Yes		
SuperParity	Yes	Yes	Yes	Yes		
Low Halogen	Yes	Yes	Yes	Yes		
PowerChoice [™] Technology	Yes	Yes	Yes	Yes		
PowerBalance Technology	Yes	Yes	Yes	Yes		
Cache, Multi-segmented (MB)	256	256	256	256		
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes		
Reliability/Data Integrity						
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5		
Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000		
Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%		
Non-recoverable Read Errors per Bits Read	_	1 sector per 10E15	_	_		
Power-On Hours per Year	8,760	8,760	8,760	8,760		
Bytes per Sector	512, 520, 528	512, 520, 528	512, 520, 528	512, 520, 528		
Warranty, Limited (years)	5	5	5	5		
Performance						
Spindle Speed (RPM)	7,200	7,200	7,200	7,200		
Interface Access Speed (Gb/s)	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0		
Max. Sustained Transfer Rate OD	249MB/s	245MB/s	226MB/s	226MB/s		
Average Latency (ms)	4.16	4.16	4.16	4.16		
Interface Ports	Dual	Dual	Dual	Dual		
Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5		
Power Consumption						
Idle Power, Average (W)	7.97	6.84	5.79	5.06		
Typical Operating, Random Read (W)	13.18	12.3	11.12	10.14		
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V		
Environmental						
Temperature, Operating (°C)	5°C-60°C	5°C -60°C	5°C -60°C	5°C -60°C		
Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs		
Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300		
Physical						
Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm		
Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm		
Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm		
Weight (Ib/g)	716 g/1.58 lb	693 g/1.53 lb	649 g/1.43 lb	620 g/1.37 lb		
Carton Unit Quantity	20	20	20	20		
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8		
TELES FOR CAROLI CAROLIC POR EASON	70/0		10/0	10,0		

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

² 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.





Specifications	4Kn SATA				
Capacity	8TB	6TB	4TB	2TB	
Base Model	ST8000NM002A	ST6000NM022A	ST4000NM001A	ST2000NM002A	
PowerBalance [™] Model	_	_	_	_	
Seagate Secure [™] SED Model ¹	_	_	_	_	
Seagate Secure SED-FIPS Model	_	_	_	_	
Features					
Protection Information (T10 DIF)	_	_	_	_	
Humidity Sensor	Yes	Yes	Yes	Yes	
SuperParity	Yes	Yes	Yes	Yes	
Low Halogen	Yes	Yes	Yes	Yes	
PowerChoice [™] Technology	Yes	Yes	Yes	Yes	
PowerBalance Technology	Yes	Yes	Yes	Yes	
Cache, Multi-segmented (MB)	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Reliability/Data Integrity					
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5	
Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000	
Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%	
Non-recoverable Read Errors per Bits Read	_	1 sector per 10E15	_	_	
Power-On Hours per Year	8,760	8,760	8,760	8,760	
Bytes per Sector	4,096	4,096	4,096	4,096	
Warranty, Limited (years)	5	5	5	5	
Performance					
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	
Max. Sustained Transfer Rate OD	249MB/s	245MB/s	226MB/s	226MB/s	
Average Latency (ms)	4.16	4.16	4.16	4.16	
Interface Ports	Single	Single	Single	Single	
Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5	
Power Consumption					
Idle Power, Average (W)	7.64	6.2	5.4	4.42	
Typical Operating, Random Read (W)	12.81	11.67	10.89	9.83	
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	
Environmental					
Temperature, Operating (°C)	5°C -60°C	5°C – 60°C	5°C-60°C	5°C - 60°C	
Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	
Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300	
Physical					
Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	
Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	
Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	
Weight (Ib/g)	716 g/1.58 lb	693 g/1.53 lb	649 g/1.43 lb	620 g/1.37 lb	
Carton Unit Quantity	20	20	20	20	
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

² 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.





STB	Specifications	4Kn SAS				
Base Model		8TB			2TB	
PowerBalance Model					+	
Seagate Secure SED Model						
Seagate Secure SED-FIPS Model						
Features	,				_	
Protection Information (T10 DIF) Yes Yes Yes Yes Yes Yes Yes Ye	·	_	_	_	_	
Humidity Sensor Yes Yes Yes Yes Yes Yes Yes Yes SuperParity Yes						
SuperParity Yes Yes <t< td=""><td>, ,</td><td></td><td></td><td></td><td>+</td></t<>	, ,				+	
Low Hallogen					+	
PowerChoice Technology					+	
PowerBalance Technology	Low Halogen	Yes	Yes	Yes	Yes	
Cache, Multi-segmented (MB) 256 256 256 256 256 256 256 25	PowerChoice [™] Technology	Yes	Yes	Yes	Yes	
Advanced Write Caching (2M internal NOR flash) Yes Yes Yes Yes Yes Yes Yes Ye	PowerBalance Technology	Yes	Yes	Yes	Yes	
Reliability/Data Integrity	Cache, Multi-segmented (MB)	256	256	256	256	
Vibration, Non-operating: 10 Hz to 500 Hz (Grms) 5 5 5 5 Mean Time Between Failures (MTBF, hours) 2,000,000 2,000,000 2,000,000 2,000,000 Reliability Rating @ Full 24x7 Operation (AFR) 0.44% 0.44% 0.44% 0.44% Non-recoverable Read Errors per Bits Read — 1 sector per 10E15 — — Power-On Hours per Year 8,760 8,760 8,760 8,760 8,760 Bytes per Sector 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 Warranty, Limited (years) 5 5 5 5 Performance Spindle Speed (RPM) 7,200 7,200 7,200 7,200	Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Mean Time Between Failures (MTBF, hours) 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000 2,000,000	Reliability/Data Integrity					
Reliability Rating @ Full 24×7 Operation (AFR) 0.44% 0.44% 0.44% 0.44% Non-recoverable Read Errors per Bits Read — 1 sector per 10E15 — — Power-On Hours per Year 8,760 8,760 8,760 8,760 Bytes per Sector 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 Warranty, Limited (years) 5 5 5 5 Performance Spindle Speed (RPM) 7,200 7,200 7,200 7,200	Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	5	5	
Non-recoverable Read Errors per Bits Read — 1 sector per 10E15 — — Power-On Hours per Year 8,760 8,760 8,760 8,760 Bytes per Sector 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200	Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	2,000,000	2,000,000	
Power-On Hours per Year 8,760 8,760 8,760 8,760 Bytes per Sector 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 7,200 <td>Reliability Rating @ Full 24×7 Operation (AFR)</td> <td>0.44%</td> <td>0.44%</td> <td>0.44%</td> <td>0.44%</td>	Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%	
Bytes per Sector 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 4,096, 4,160, 4,224 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7 2	Non-recoverable Read Errors per Bits Read	_	1 sector per 10E15	_	_	
Warranty, Limited (years) 5 5 5 Performance Spindle Speed (RPM) 7,200 7,200 7,200	Power-On Hours per Year	8,760	8,760	8,760	8,760	
Performance Spindle Speed (RPM) 7,200 7,200 7,200	Bytes per Sector	4,096, 4,160, 4,224	4,096, 4,160, 4,224	4,096, 4,160, 4,224	4,096, 4,160, 4,224	
Spindle Speed (RPM) 7,200 7,200 7,200 7,200	Warranty, Limited (years)	5	5	5	5	
	Performance					
	Spindle Speed (RPM)	7,200	7,200	7,200	7,200	
Interface Access Speed (Gb/s) 12.0, 6.0, 3.0 12.0, 6.0, 3.0 12.0, 6.0, 3.0 12.0, 6.0, 3.0	Interface Access Speed (Gb/s)	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0	12.0, 6.0, 3.0	
Max. Sustained Transfer Rate OD 249MB/s 245MB/s 226MB/s 226MB/s	Max. Sustained Transfer Rate OD	249MB/s	245MB/s	226MB/s	226MB/s	
Average Latency (ms) 4.16 4.16 4.16 4.16	Average Latency (ms)	4.16	4.16	4.16	4.16	
Interface Ports Dual Dual Dual Dual	Interface Ports	Dual	Dual	Dual	Dual	
Rotational Vibration @ 1,500 Hz (rad/s²) 12.5 12.5 12.5	Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	12.5	12.5	
Power Consumption	Power Consumption					
Idle Power, Average (W) 7.97 6.84 5.79 5.06	Idle Power, Average (W)	7.97	6.84	5.79	5.06	
Typical Operating, Random Read (W) 13.18 12.3 11.12 10.14	Typical Operating, Random Read (W)	13.18	12.3	11.12	10.14	
Power Supply Requirements +12 V and +5 V	Power Supply Requirements	+12 V and +5 V				
Environmental	Environmental					
Temperature, Operating (°C) $ 5^{\circ}\text{C} - 60^{\circ}\text{C} $	Temperature, Operating (° C)	5°C - 60°C	5°C - 60°C	5°C-60°C	5°C-60°C	
Shock, Operating 2 ms Read/Write (Gs) 70/40 Gs 70/40 Gs 70/40 Gs 70/40 Gs	Shock, Operating 2 ms Read/Write (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	
Shock, Non-operating, (1 ms/2 ms) (Gs) 150/300 150/300 150/300 150/300 150/300	Shock, Non-operating, (1 ms/2 ms) (Gs)	150/300	150/300	150/300	150/300	
Physical	Physical					
Height (in/mm, max) ² 1.028 in/26.1 mm 1.028 in/26.1 mm 1.028 in/26.1 mm 1.028 in/26.1 mm	Height (in/mm, max) ²	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	1.028 in/26.1 mm	
Width (in/mm, max) ² 4.01 in/101.85 mm 4.01 in/101.85 mm 4.01 in/101.85 mm	Width (in/mm, max) ²	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	4.01 in/101.85 mm	
Depth (in/mm, max) ² 5.787 in/147 mm 5.787 in/147 mm 5.787 in/147 mm	Depth (in/mm, max) ²	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	5.787 in/147 mm	
Weight (lb/g) 716 g/1.58 lb 693 g/1.53 lb 649 g/1.43 lb 620 g/1.37 lb	Weight (lb/g)	716 g/1.58 lb	693 g/1.53 lb	649 g/1.43 lb	620 g/1.37 lb	
Carton Unit Quantity 20 20 20 20	Carton Unit Quantity	20	20	20	20	
Cartons per Pallet / Cartons per Layer 40/8 40/8 40/8	Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	

¹ Self-Encrypting Drives (SED), Instant Secure Erase (ISE) drives, and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

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² 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.