



DATA SHEET

Trusted. Efficient. Versatile.

Exos 7E8

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





Best-Fit Applications

- Hyperscale applications/cloud data centers
- Massive scale-out data centers
- 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
- Centralized surveillance



Enterprise Drive for Bulk Data Applications

Exos 7E8 hard drives support up to 8TB per drive, ¹ offering bulk data storage for data center 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 catalyze the datasphere, enabling data center 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 550TB per year—10× 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 Center Applications

Meet your storage workload requirements in the most efficient and cost-effective data center footprint on the market today. The Exos 7E8 delivers easy integration into bulk storage systems with 12Gb/s SAS and SATA 6Gb/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 unauthorized 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-resistent 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.





Specifications		512n SATA				
Capacity	6TB	4TB	зтв	2TB	1TB	
Base Model	ST6000NM002A	ST4000NM000A	ST3000NM000A	ST2000NM000A	ST1000NM000A	
PowerBalance [™] Model	_	_	_	_	_	
Seagate Secure [™] SED Model ¹	_	_	_	_	_	
Seagate Secure SED-FIPS Model ¹		ST4000NM013A	ST3000NM004A	_	_	
Features			0.0000.111100.11			
Protection Information (T10 DIF)	_	_	_	_	_	
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, Multisegmented (MB)	256	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	Yes	
Reliability/Data Integrity						
Vibration, Nonoperating: 10Hz to 500Hz (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%	
Nonrecoverable 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)	7200	7200	7200	7200	7200	
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	
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	Single	Single	Single	Single	Single	
Rotational Vibration @ 1500Hz (rad/s²)	12.5	12.5	12.5	12.5	12.5	
Power Consumption					ļ.	
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	+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 2ms Read/Write (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs	70/40Gs	
Shock, Nonoperating, (1ms/2ms) (Gs)	150/300	150/300	150/300	150/300	150/300	
Physical						
Height (in/mm, max) ²	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	
Weight (g/lb)	716g/1.58lb	649g/1.43lb	649g/1.43lb	620g/1.37lb	620g/1.37lb	
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
734			 	 	
PowerBalance Model	_	_	_	_	_
Seagate Secure SED Model	-	_	_	_	_
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, Multisegmented (MB)	256	256	256	256	256
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	Yes
Reliability/Data Integrity					
Vibration, Nonoperating: 10Hz to 500Hz (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%
Nonrecoverable 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)	7200	7200	7200	7200	7200
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 @ 1500Hz (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 2ms Read/Write (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs	70/40Gs
Shock, Nonoperating, (1ms/2ms) (Gs)	150/300	150/300	150/300	150/300	150/300
Physical					
Height (in/mm, max) ²	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm
Weight (g/lb)	716g/1.58lb	649g/1.43lb	649g/1.43lb	620g/1.37lb	620g/1.37lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40 / 8	40/8	40 / 8	40/8	40/8
	70,0	1.57.5	.5, 0		1.07.0

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 (Fast	Format [™]) SATA			
Capacity	8TB	6TB	4TB	2TB		
Base Model	ST8000NM000A	ST6000NM021A	ST4000NM002A	ST2000NM001A		
PowerBalance [™] Model	ST8000NM016A	ST6000NM037A	_	_		
Seagate Secure [™] SED Model ¹	_	_	_	_		
Seagate Secure SED-FIPS Model	ST8000NM008A	ST6000NM025A	ST4000NM012A			
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, Multisegmented (MB)	256	256	256	256		
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes		
Reliability/Data Integrity						
Vibration, Nonoperating: 10Hz to 500Hz (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%		
Nonrecoverable 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)	7200	7200	7200	7200		
nterface 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 @ 1500Hz (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 2ms Read/Write (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs		
Shock, Nonoperating, (1ms/2ms) (Gs)	150/300	150/300	150/300	150/300		
Physical						
Height (in/mm, max) ²	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm		
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm		
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm		
Weight (g/lb)	716g/1.58lb	693g/1.53lb	649g/1.43lb	620g/1.37lb		
Carton Unit Quantity	20	20	20	20		

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				
Base Model	ST8000NM001A	ST6000NM029A	ST4000NM005A	2TB ST2000NM004A	
PowerBalance [™] Model			— S14000NIVIOOA	312000NW004A	
		_			
Seagate Secure [™] SED Model ¹			_	_	
Seagate Secure SED-FIPS Model 1	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, Multisegmented (MB)	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Reliability/Data Integrity	-	_	<u> </u>	-	
Vibration, Nonoperating: 10Hz to 500Hz (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%	
Nonrecoverable 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)	7200	7200	7200	7200	
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 @ 1500Hz (rad/s²)	12.5	12.5	12.5	12.5	
Power Consumption	7.07	201	5.70	5.00	
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)	E00 0000	E9C 009C	E9C 009C	F9C 000C	
Temperature, Operating (°C)	5°C -60°C	5° C - 60° C 70/40Gs	5°C – 60°C	5°C - 60°C	
Shock, Operating 2ms Read/Write (Gs) Shock, Nonoperating, (1ms/2ms) (Gs)	70/40Gs 150/300	70/40Gs 150/300	70/40Gs 150/300	70/40Gs 150/300	
Snock, Nonoperating, (Tms/2ms) (Gs) Physical	150/300	150/300	150/300	190/300	
	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	
Height (in/mm, max) ²			+		
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	
Weight (g/lb)	716g/1.58lb	693g/1.53lb	649g/1.43lb	620g/1.37lb	
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.





Occasión ations	4Kn SATA				
Specifications					
Capacity	8TB	6TB	4TB	2TB	
Base Model	ST8000NM002A	ST6000NM022A	ST4000NM001A	ST2000NM002A	
PowerBalance [™] Model		_	_		
Seagate Secure [™] SED Model ¹		_	_	_	
Seagate Secure SED-FIPS Model ¹	_	_	_	_	
Features					
Protection Information (T10 DIF)		_	_		
Humidity Sensor	Yes	Yes	Yes	Yes	
SuperParity	Yes	Yes	Yes	Yes	
Low Halogen	Yes	Yes	Yes	Yes	
$PowerChoice^{^{TM}}Technology$	Yes	Yes	Yes	Yes	
PowerBalance Technology	Yes	Yes	Yes	Yes	
Cache, Multisegmented (MB)	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Reliability/Data Integrity					
Vibration, Nonoperating: 10Hz to 500Hz (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%	
Nonrecoverable 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	4096	4096	4096	4096	
Warranty, Limited (years)	5	5	5	5	
Performance					
Spindle Speed (RPM)	7200	7200	7200	7200	
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 @ 1500Hz (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 2ms Read/Write (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs	
Shock, Nonoperating, (1ms/2ms) (Gs)	150/300	150/300	150/300	150/300	
Physical					
Height (in/mm, max) 2	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	
Weight (g/lb)	716g/1.58lb	693g/1.53lb	649g/1.43lb	620g/1.37lb	
Carton Unit Quantity	20	20	20	20	
Cartons per Pallet/Cartons per Layer	40/8	40 / 8	40 / 8	40 / 8	
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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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	47.010				
Specifications	4Kn SAS				
Capacity	8TB	6TB	4TB	2TB	
Base Model	ST8000NM003A	ST6000NM030A	ST4000NM004A	ST2000NM005A	
PowerBalance [™] Model	_	_	_		
Seagate Secure [™] SED Model ¹		-	_		
Seagate Secure SED-FIPS Model	_	_	_	_	
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	
$PowerChoice^{^{TM}}Technology$	Yes	Yes	Yes	Yes	
PowerBalance Technology	Yes	Yes	Yes	Yes	
Cache, Multisegmented (MB)	256	256	256	256	
Advanced Write Caching (2M internal NOR flash)	Yes	Yes	Yes	Yes	
Reliability/Data Integrity					
Vibration, Nonoperating: 10Hz to 500Hz (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%	
Nonrecoverable 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	4096, 4160, 4224	4096, 4160, 4224	4096, 4160, 4224	4096, 4160, 4224	
Warranty, Limited (years)	5	5	5	5	
Performance					
Spindle Speed (RPM)	7200	7200	7200	7200	
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 @ 1500Hz (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 2ms Read/Write (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs	
Shock, Nonoperating, (1ms/2ms) (Gs)	150/300	150/300	150/300	150/300	
Physical					
Height (in/mm, max) ²	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	1.028in/26.1mm	
Width (in/mm, max) ²	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	4.01in/101.85mm	
Depth (in/mm, max) ²	5.787in/147mm	5.787in/147mm	5.787in/147mm	5.787in/147mm	
Weight (g/lb)	716g/1.58lb	693g/1.53lb	649g/1.43lb	620g/1.37lb	
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.

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