

DATA SHEET

Trusted. Efficient. Versatile. **Exos 10E2400**



Seagate[®] Exos[™] 10E2400 enterprise hard drives are the industry's fastest 10K-RPM drives, with capacities up to 2.4TB in a 2.5-inch form factor, and intended for traditional data centers where density, power consumption and data integrity are paramount.



Best-Fit Applications

- Mission critical servers and external storage arrays
- Database and online transaction process (OLTP) applications
- Power- and space-constrained data centers
- Green IT and drive-retirement cost reduction initiatives
- Compliance and data security initiatives
- Migration from 3.5-inch drive systems
- to next-generation technologyCost-effective alternative to higher-
- Cost-effective alternative to higher priced performance solutions



The Perfect Match of High Capacity and High Performance

The high capacity and small 2.5-inch footprint of the Exos 10E2400 drive enables data centers to keep pace with data growth and optimize data center real estate. Exos 10E2400 delivers up to 2.4TB of high-performance data access for write-intensive applications. A single advanced format interface model lets you future-proof your storage infrastructure. The Seagate Enhanced Caching feature accelerates read and write I/O operations, preventing applications from slowing down under peak usage conditions. The latest 12Gb/s SAS interface provides improved scalability.

Maximize Storage Investments for the Long Haul

Exos 10E2400 offers Protection Information (PI) to help protect against data corruption,¹ and Seagate PowerChoice[™] technology for T10-compliant power management enables IT organizations to tailor systems for enhanced power consumption. RAID recovery is faster and safer with the help of the Seagate RAID Rebuild[®] technology option.

Industry-Leading Data Security Features

Seagate Secure[™] SED and FIPS 140-2 government-grade models offer hardware-based security to help protect data-at-rest.² With Instant Secure Erase, drive retirement is safe, fast and cost-effective. Seagate Secure models meet the NIST 800-88 media sanitization specification and support the Trusted Computer Group (TCG) standard.²

Exos 10E300 Enterprise Hard Drives

The industry's fastest 10K-RPM drives are also available in 300GB capacity and are a perfect choice for entry-level boot server applications.

1 Protection Information (PI) feature requires PI-compliant host or controller support. 2 Seagate Secure models not available in all countries. May require TCG-compliant host or controller support.





Specifications	FastFormat [™] 512 Emulation/4K Native						
Capacity	2.4TB	1.8TB	1.2TB	600GB			
Standard Model	ST2400MM0129	ST1800MM0129	ST1200MM0129	ST600MM0099			
Seagate Secure [™] SED Model ¹	_	-	ST1200MM0139	ST600MM0109			
Seagate Secure FIPS 140-2/Common Criteria Model ^{1,2}	ST2400MM0149	ST1800MM0149	_	_			
Performance							
Spindle Speed (RPM)	10000RPM	10000RPM	10000RPM	10000RPM			
Average Latency (ms)	2.9	2.9	2.9	2.9			
Sustained Transfer Rate (Outer to Inner Diameter, MB/s)	266 to 130	266 to 130	266 to 130	266 to 130			
Cache, Multisegmented (MB)	256	256	256	256			
Enhanced Caching Features							
I/O Acceleration and Response Time Optimization	Enabled	Enabled	Enabled	Enabled			
NAND Flash Type	eMLC	eMLC	eMLC	eMLC			
NAND Flash Size	16GB	16GB	16GB	16GB			
Intelligent NAND Endurance Management	Yes	Yes	Yes	Yes			
Enterprise Features							
Secure Download & Diagnostics (SD&D) and Instant Secure Erase Option	Yes	Yes	Yes	Yes			
FastFormat (512e/4Kn AF Switching)	Yes	Yes	Yes	Yes			
12Gb/s SAS	Yes	Yes	Yes	Yes			
Configuration/Reliability							
Disks/Heads	4/8	3/6	2/4	1/2			
External Transfer Rate (MB/s)	1200	1200	1200	1200			
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16			
Annualized Failure Rate (AFR)	0.44%	0.44%	0.44%	0.44%			
Limited Warranty (years)	5	5	5	5			
Power Management							
Typical Op (A) +5V/+12V	0.47/0.52	0.44/0.42	0.46/0.41	0.46/0.40			
Typical Operating (W)	8.6	7.2	7.2	7.1			
Average Idle Power (W)	4.9	4.3	3.8	3.4			
Performance Efficiency Index (Idle W/GB)	0.0020	0.0024	0.0032	0.0057			
Environmental							
Ambient Temperature, Operating (C°)	5°C – 55°C	5°C – 55°C	5°C – 55°C	5°C – 55°C			
Ambient Temperature, Nonoperating (C°)	-40°C – 70°C	-40°C – 70°C	-40° C – 70° C	-40°C – 70°C			
Shock, Max. Operating: 11ms (Gs)	40	40	40	40			
Shock, Max. Nonoperating: 2ms (Gs)	400	400	400	400			
Vibration, Operating: <500Hz (Gs)	0.5	0.5	0.5	0.5			
Vibration, Nonoperating: <500Hz (Gs)	3	3	3	3			
Physical							
Height (in/mm, max) ³	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm			
Width (in/mm, max) ³	2.750in/69.85mm	2.750in/69.85mm	2.750in/69.85mm	2.750in/69.85mm			
Depth (in/mm, max) 3	3.955in/100.45mm	3.955in/100.45mm	3.955in/100.45mm	3.955in/100.45mm			
Weight (g/lb)	202g/0.445lb	218g/0.480lb	220g/0.486lb	215g/0.474lb			
Carton Unit Quantity	40	40	40	40			
Cartons per Pallet/Cartons per Layer	60/10	60/10	60/10	60/10			

1 Not all drives may be available in all countries. Seagate Secure drives meet ISO/IEC 27040 and NIST 800-88 standards and may require use of TCG-compliant host or controller support.

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

3 These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org.





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Annualized Failure Rate (AFR) 0.44% 0.44% 0.44% Limited Warrany (years) 5 5 5 Power Management Typical Op (A) + 5V/+12V 0.460.41 0.460.40 0.460.40 Typical Op (A) + 5V/+12V 0.460.41 0.460.40 0.460.40 Typical Operating (W) 7.2 7.1 6.3 Average life Power (W) 3.8 3.4 3.4 Performance Efficiency Index (Ide WIGB) 0.0032 0.0057 0.0057 Environmental 4.0° C - 70° C 5° C - 55° C Arbient Temperature, Nonoperating (C°) -40° C - 70° C -40° C - 70° C -40° C - 70° C Arbient Temperature, Nonoperating (C°) -40° C - 70° C -5° C - 55° C 5° C - 55° C Shock, Max. Nonoperating (C°) -40° C - 70° C -40° C - 70° C -40° C - 70° C Shock, Max. Nonoperating: Time (Gs) 0.5 0.5 0.5 Vibration, Nonoperating: -500Hz (Gs) 3 3 3 Flysical 0.591in/15.00mm 0.59	External Transfer Rate (MB/s)	1200	1200	1200				
Limited Warrany (years) 5 5 5 Power Management Typical Op (A) +5W+12V 0.460.41 0.460.40 0.460.40 Typical Op (A) +5W+12V 0.38 3.4 3.4 Average Idle Power (W) 3.8 3.4 3.4 Performance Efficiency Index (Ide W/GB) 0.0032 0.0057 0.0057 Environmental Environmental Environmental Environmental Ambient Temperature, Nonoperating (C°) 5°C -55°C 5°C -55°C 5°C -55°C Shock, Max. Nonoperating: CINS 40 40 40 Shock, Max. Nonoperating: Soll (Cis) 0.5 0.5 0.5 Shock, Max. Nonoperating: cSoll 2 (Cis) 0.5 0.5 0.5 Vibration, Nonoperating: cSoll 2 (Gis) 3 3 3 Physical Environm 0.591in/15.00mm 0.591in/15.00	Nonrecoverable Read Errors per Bits Read, Max	1 per 10E16	1 per 10E16	1 per 10E16				
Power Management Typical Op (A) +5V/+12V 0.460.41 0.460.40 0.460.40 Typical Operating (W) 7.2 7.1 6.3 Average Idle Power (W) 3.8 3.4 3.4 Performance Efficiency Index (Idle W/GB) 0.0032 0.0057 0.0057 Environmental 0.0057 0.0057 0.0057 Ambient Temperature, Operating (C*) 5°C – 55°C 5°C – 55°C 5°C – 55°C Ambient Temperature, Nonoperating (C*) -40°C – 70°C -40°C – 70°C -40°C – 70°C Shock, Max. Nonoperating: Ims (Gs) 40 40 40 40 Shock, Max. Nonoperating: Sold (Gs) 0.5 0.5 0.5 0.5 Vibration, Neargement 3 3 3 3 3 Physical 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Widh (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Depth (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm	Annualized Failure Rate (AFR)	0.44%	0.44%	0.44%				
Typical Op (A) +5V/+12V 0.460.41 0.460.40 0.460.40 Typical Operating (W) 7.2 7.1 6.3 Average Idle Power (W) 3.8 3.4 3.4 Performance Efficiency Index (Idle W/GB) 0.0032 0.0057 0.0057 Environmental 5°C -55°C 5°C -55°C Ambient Temperature, Operating (C°) -40°C - 70°C -40°C - 70°C -40°C - 70°C Ankar, Nonoperating (C°) -40°C - 70°C -40°C - 70°C -40°C - 70°C Shock, Max. Operating: 11ms (Gs) 40 40 40 Shock, Max. Nonoperating: 2ms (Gs) 0.5 0.5 0.5 Vibration, Nonoperating: -stoOHz (Gs) 0.5 0.5 0.5 Vibration, Nonoperating: -stoOHz (Gs) 3 3 3 Physical 1.5 0.5 0.5 Width (in/mm, max) ³ 0.5911n/15.00mm 0.5911n/15.00mm 0.5911n/15.00mm Depth (in/mm, max) ³ 0.5911n/15.00mm 0.5911n/15.00mm 0.5911n/15.00mm Width (in/mm, max) ³ 0.5911n/15.00mm <	Limited Warranty (years)	5	5	5				
Typical Operating (W) 7.2 7.1 6.3 Average Idle Power (W) 3.8 3.4 3.4 Performance Efficiency Index (Idle W/GB) 0.0032 0.0057 0.0057 Environmental 5°C - 55°C 5°C - 55°C 5°C - 55°C Ambient Temperature, Nonoperating (C°) 5°C - 55°C 5°C - 55°C 5°C - 55°C -40°C - 70°C Ambient Temperature, Nonoperating (C°) -40°C - 70°C -40°C - 70°C -40°C - 70°C -40°C - 70°C Shock, Max. Operating: 11ms (Gs) 40 40 40 40 Shock, Max. Nonoperating: -500Hz (Gs) 0.5 0.5 0.5 Vibration, Nonoperating: -500Hz (Gs) 3 3 3 Physical 2760in/70.10mm 0.591in/15.00mm 0.591in/15.00mm Width (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm <td< td=""><td colspan="8">Power Management</td></td<>	Power Management							
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Performance Efficiency Index (Idle W/GB) 0.0032 0.0057 0.0057 Environmental	Typical Operating (W)	7.2	7.1	6.3				
Environmental Ambient Temperature, Operating (C°) 5°C – 55°C 5°C – 55°C 5°C – 55°C Ambient Temperature, Nonoperating (C°) -40°C – 70°C -40°C – 70°C -40°C – 70°C Shock, Max. Operating: 11ms (Gs) 40 40 40 40 Shock, Max. Operating: 2ms (Gs) 400 400 400 400 Vibration, Operating: 2ms (Gs) 0.5 0.5 0.5 0.5 Vibration, Nonoperating: <500Hz (Gs)	Average Idle Power (W)	3.8	3.4	3.4				
Ambient Temperature, Operating (C°) 5°C – 55°C 5°C – 55°C 5°C – 55°C Ambient Temperature, Nonoperating (C°) -40°C – 70°C -40°C – 70°C -40°C – 70°C Shock, Max. Operating: 11ms (Gs) 40 40 40 40 Shock, Max. Operating: 2ms (Gs) 400 400 400 400 Shock, Max. Nonoperating: 2ms (Gs) 0.5 0.5 0.5 0.5 Vibration, Operating: <500Hz (Gs)	Performance Efficiency Index (Idle W/GB)	0.0032	0.0057	0.0057				
Ambient Temperature, Nonoperating (C°) 40° C - 70° C 40° C - 70° C 40° C - 70° C Shock, Max. Operating: 11ms (Gs) 40 40 40 40 Shock, Max. Nonoperating: 2ms (Gs) 400 400 400 400 Vibration, Operating: cS00Hz (Gs) 0.5 0.5 0.5 0.5 Vibration, Nonoperating: <500Hz (Gs)	Environmental							
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Shock, Max. Nonoperating: 2ms (Gs) 400 400 400 Vibration, Operating: <500Hz (Gs)	Ambient Temperature, Nonoperating (C°)	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C				
Vibration, Operating: <500Hz (Gs) 0.5 0.5 0.5 Vibration, Nonoperating: <500Hz (Gs)	Shock, Max. Operating: 11ms (Gs)	40	40	40				
Vibration, Nonoperating: <500Hz (Gs) 3 3 3 Physical 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Height (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Width (in/mm, max) ³ 2.760in/70.10mm 2.760in/70.10mm 2.760in/70.10mm Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40	Shock, Max. Nonoperating: 2ms (Gs)	400	400	400				
Physical Height (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Width (in/mm, max) ³ 2.760in/70.10mm 2.760in/70.10mm 2.760in/70.10mm Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40	Vibration, Operating: <500Hz (Gs)	0.5	0.5	0.5				
Height (in/mm, max) ³ 0.591in/15.00mm 0.591in/15.00mm 0.591in/15.00mm Width (in/mm, max) ³ 2.760in/70.10mm 2.760in/70.10mm 2.760in/70.10mm Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40	Vibration, Nonoperating: <500Hz (Gs)	3	3	3				
Width (in/mm, max) ³ 2.760in/70.10mm 2.760in/70.10mm 2.760in/70.10mm Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40	Physical							
Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40	Height (in/mm, max) ³	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm				
Depth (in/mm, max) ³ 3.955in/100.45mm 3.955in/100.45mm Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40		2.760in/70.10mm	2.760in/70.10mm	2.760in/70.10mm				
Weight (g/lb) 220g/0.486lb 215g/0.474lb 215g/0.474lb Carton Unit Quantity 40 40 40								
Carton Unit Quantity 40 40 40								
	Cartons per Pallet/Cartons per Layer	60/10	60/10	60/10				

1 Not all drives may be available in all countries. Seagate Secure drives meet ISO/IEC 27040 and NIST 800-88 standards and may require use of TCG-compliant host or controller support.

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

3 These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org.





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