



DATA SHEET

Efficient. Agile. Scalable.

Exos E 5U84



Seagate® Exos™ E 5U84 is the datasphere's high-capacity, high-performance platform that can handle extreme data growth.



Product Highlights

- Deliver peace of mind with features to protect data, including dual power supplies, fan modules, and I/O modules, as well as dual data paths to all drives
- Reduce power consumption with 80 PLUS Platinum certified power supplies and adaptive cooling technology
- Easily manage cables, universal ports, self-configuration controls, and standardized zoning
- Seamlessly expand to 336 drives as business grows
- Efficiently manage your data center with a 5U rackmount enclosure and unique drawer design that provides easy access to drives
- Maximum of 28.8GB/s in a dual controller configuration

Key Advantages

Transfer Data Fast With a 12Gb/s SAS Interface. Get data to applications when and where it's needed with up to 12Gb/s speed, unprecedented capacity, and effective maximum throughput of 14.4GB/s in a single I/O module or 28.8GB/s in a dual controller configuration. Even with expansion capability up to 336 hard drives or solid state drives, there is no sacrifice of space for performance.

Deliver a Versatile Architecture Built to Grow. Minimize your TCO and store up to 1.1PB of data with an enclosure that leads the industry in both density and cost-for-performance while enabling easy expansion via interchangeable FRUs and SBB 2.0 compatibility. This flexible enclosure includes support and capabilities to manage cables, universal ports, self-configuration controls, and standardized zoning while helping you accelerate market introduction of new technologies and significantly simplify development and testing of storage implementations.

Ensure Applications Have Access to Critical Data. Safeguard your data with fault diagnosis, resolution capabilities, persistent error logging, and monitoring while ensuring maximum availability while harnessing high-availability features such as dual cooling, PCMs, and I/O modules, as well as dual data paths to all drives.

Reduce Cost and Resources With Energy-Efficient Features. This enclosure is suited for high-capacity, transaction-dependent environments that demand tighter Service Level Agreement (SLA) requirements and need faster response times for optimal data availability. It meets stringent worldwide requirements for recycling and environmental friendliness, and can help you minimize environmental impact and recognize cost savings through high performance while reducing power consumption with 80 PLUS Platinum certified adaptive cooling technology.

Build In Security at the Foundation of the Data Life Cycle. Protect your most valuable business assets with guaranteed compatible Seagate Secure™ hard drives.



Specifications	
Controller	Dual EBOD storage bridge bay (SBB) 2.1 compatible I/O modules per enclosure
Host/Expansion Interface	Three universal x4 12Gb/s mini-SAS connectors (SFF-8644) per I/O module
Management/Status Reporting	CLI via RS232 and 100Base-T port, SCSI enclosure services (SES) via SAS SFF-8644 ports
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 4 enclosures for a total of 336 drives
Device Support	Dual-ported 12Gb/s SAS
Max Drives per Enclosure	84 (for a full list of supported drives, please contact your account or sales manager)
Hot-Swappable Components	Drives, power supply units (PSU), cooling modules, side planes, and SBB I/O modules
Physical	Height: 220mm / 8.65 in (5 EIA units) Width: 483mm / 19 in (IEC rack compliant) Depth: 933mm / 36.75 in Weight: 135kg / 298 lb (with drives, no rail kit)
Power Requirements—AC Input	
Input Power Requirements	180VAC-240VAC, 50Hz/60Hz
Max Power Output per PSU	2200W
Environmental/Temperature Ranges	
Operating/Nonoperating Altitude	-100m to 3000m (-330 ft to 10,000 ft) / -100m to 12,192m (-330 ft to 40,000 ft)
Operating/Nonoperating Temperature	ASHRAE A2, 5°C to 35°C (41°F to 95°F), derate 1°C/300m above 900m, 20°C/hr max rate of change / -40°C to 70°C (-40°F to 158°F)
Operating/Nonoperating Humidity	-12°C DP and 10% RH to 21°C DP and 80% RH, max DP 21°C / 5% to 100% noncondensing
Operating/Nonoperating Shock	5 Gs, 10ms, half sine pulses / 20 Gs, 10ms, half sine pulses
Operating/Nonoperating Vibration	0.21 Gs rms (5-500Hz) / 1.04 Gs rms (2-200Hz)
Standards/Approvals	
Safety Certifications	UL 60950-1 (USA and Canada) EN 60950-1 (European Union) IEC 60950-1 (CB certification)
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Emissions (EMC)	FCC CFR 47 Part 15 Subpart B Class A (United States) ICES/NMB-003 Class A (Canada) EN 55032 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3 (Europe) AS/NZS CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KN 32 Class A/KN 35 (S. Korea) CNS 13438 Class A (Taiwan)
Standard Marks/Approvals	North America (FCC, UL, cUL, ICES/NMB-003 Class A), Europe (CE), China (CCC – PSU only), Taiwan (BSMI), Korea (KC), Japan (VCCI), Australia/New Zealand (RCM – formerly C-tick)

seagate.com



© 2020 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral Logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Exos, the Exos logo, and Seagate Secure are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. The export or re-export of Seagate hardware or software is regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit www.bis.doc.gov), and may be controlled for export, import, and use in other countries. Seagate reserves the right to change, without notice, product offerings or specifications. DS1977.4-2003US March 2020