DATA SHEET

Efficient Storage Expansion

Exos E 5U84

Seagate® Exos™ E 5U84 is the datasphere's ideal platform for Storage expansion, supporting efficient growth, performance, and high capacity at an affordable price.

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
- 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, remarkable 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 an expansion capability of 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 PBs of data within a single enclosure that leads the industry in both density and cost-for-performance while enabling easy multi-enclosure 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 the market introduction of new technologies and significantly simplify the 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 and 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, can help you minimize environmental impact, and recognize cost savings through high performance.

Reduce power consumption 80 PLUS Titanium and 80 PLUS Platinum power supply options with certified adaptive cooling technology.

Specifications	
Controller	Dual EBOD storage bridge bay (SBB) 2.1 compatible I/O modules per enclosure
Host/Expansion Interface	Three universal ×4 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)
Power Supply Units	
Power Supply	Ecodesign (Part UD-PCM2-2200-AC/ Model SGT-S-2200ADE00) – Titanium Power Efficiency 230VAC50/Hz — Power Factor Conditions (PFC) 10% Load = >90% — 10% Loading = >0.80 20% Load = >94% — 20% Loading = >0.95 50% Load = >96% — 50% Loading = >0.95 100% Load = >91% — 100% Loading = >0.95
Power Supply	Ecodesign (Part UD-PSU01-2200-AC/ Model FS2K2HS180-xx) – Platinum Power Efficiency 230VAC50/Hz — Power Factor Conditions (PFC) 10% Load = >81% — 10% Loading = >0.80 20% Load = >89% — 20% Loading = >0.90 50% Load = >93% — 50% Loading = >0.95 100% Load = >90% — 100% Loading = >0.95

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