



Xyratex delivers best-in-class storage density and SAS connectivity for nearline storage solutions.

In today's data-rich environment, businesses are faced with the need to keep ever-increasing amounts of data online and readily accessible. Recent legislation such as the Sarbanes-Oxley Act resulted in a substantial and unexpected volume increase, and the ability to differentiate data and move non-business-critical information to less costly storage is an essential step in a cost-effective tiered storage solution.

Xyratex's RS-4835-E3-EBD is the ideal solution for archival storage and its associated applications, and sets the design standard for mass storage enclosures available today. Housing 48 Serial ATA (SATA) drives in only 4U of rack space, this high-density solution can store up to 36TB of data, making it the industry leader in density.

Designed around proven Serial ATA (SAS) technology, the RS-4835-E3-EBD provides ease of deployment and integration into the customer's existing fabric environment, and is ideally suited to meet the ever-expanding requirements of compliance, backup, digital media and surveillance.

Xyratex's innovative enclosure design and internal architecture include fully redundant hot-swappable components. N+1 Power and dual pathing at the drive level allow for full High Availability (HA) protection, and, unlike competing mass storage enclosures, ensure that the RS-4835-E3-EBD will remain on-line and active during service and maintenance.

An OEM customizable, front-mounted LCD display provides real-time statuses and reporting on all aspects of the enclosure. In addition, 48 individual LED lights monitor drive status and health, providing clear fault diagnostics and ease of serviceability.

Features

- Highest density 4U nearline solution available
- Scale to 36TB in a single rack
- Single or dual I/O modules
- Dual 4-lane 3Gb SAS ports per I/O module
- Hot-swappable I/O modules, drives, power and cooling
- Enterprise-class HA design (no single point-of-failure)
- StorView™ Web GUI interface for anywhere, lights-out monitoring
- CLI and ANSI enclosure SES support for management & diagnostics

Technical Specification

General Information

Order code	RS-4835-E3-EBD-1 & RS-4835-E3-EBD-2
Controller	Single/dual EBOD controllers per enclosure
Performance	Up to 1,200 MB/s
External Interface	4-lane 3Gb SAS ports
Host/Expansion Interface	Dual 4-lane Serial Attached SCSI (SAS) connectors SFF 8470 (InfiniBand style)
Management/Status Reporting	StorView™ Web GUI, CLI, SES (SCSI Enclosure Services)
Total Capacity	36TB per chassis (with 750 GB drives)
Max. System Configuration	1 host-connected enclosure with 1 expansion enclosure total of 96 drives

Disk Drives

Drives Supported ¹	Hitachi & Seagate SATA 250GB, 500GB & 750GB
Device Types Supported	SATA II (3Gb) direct dock (single port) & active/active (dual port via interposer)
Max Drives per Enclosure	48

System Availability

Hot Swappable Components	Disk drives, PSU/cooling modules, I/O modules, channel cards
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Dimensions

Height	175 mm (6.89 in) 4 EIA units
Width	483 mm (19.01 in) 1EC rack compliant
Depth	777.4 mm (30.6 in)
Weight (max. with drives)	80 kg (177 lbs)

Rack Requirements

Height (max.)	42 U
Width (post to post)	482.6 mm (19 in)
Depth	1,000 mm (40 in)
Load Capacity	907 kg (2,000 lbs)
Stability	Bolt-down or anti-tip plinth required
Reference ²	Rittal: TS8 Rack - part no. 9969811, Bolt-down - part no. 8800210, Plinth - part no. 7825250

Altitude, Power and Temperatures

Operational Altitude	0 to 3,000 M (0 to 10,000 ft)
Non-operational Altitude	-305 to 12,192 M (-1000 to 40,000 ft)
Voltage	100 to 240 VAC
Frequency	60/50 Hz
Power Consumption	1.4 kVA
Temperature Range	+5 to +35 C (30 C max. above 2,000 M)
Humidity	20 to 80% non-condensing

Shock and Vibration

Operational Shock	5 g, 10 ms, 1/2 sine
Operational Vibration	0.1 grms, 5-50 Hz random
Non-operational Shock	20 g, 10 ms, 1/2 sine
Non-operational Vibration	0.8 grms, 2-200 Hz random
Relocation Vibration	0.15 g, 2-200 Hz sine
Acoustics	<58 dB LpA

Approvals

EMC	FCC Pt15B Class A and EN55022 Class A
Safety	EN/IEC/UL 60950, UL, cUL and CB report Marks: CE, UL, cUL, FCC

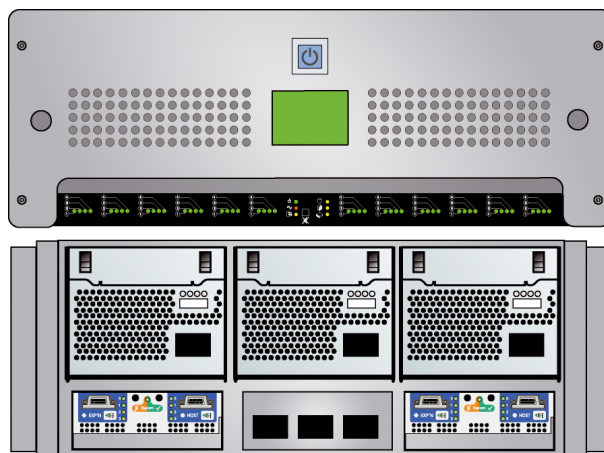
Warranty Information

Enclosures with Drives	Up to 3 years
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Please contact Xyratex for detailed warranty information

(1) Additional drive types and capacities will be qualified as new releases are made. For a full list of supported drives, please contact your account or sales manager.

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