



### **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

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

### Disk Drives

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

### System Availability

<b>Hot Swappable Components</b>	Disk drives, PSU/cooling modules, I/O modules, channel cards
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### Dimensions

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

### Rack Requirements

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

### Altitude, Power and Temperatures

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

### Shock and Vibration

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

### Approvals

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

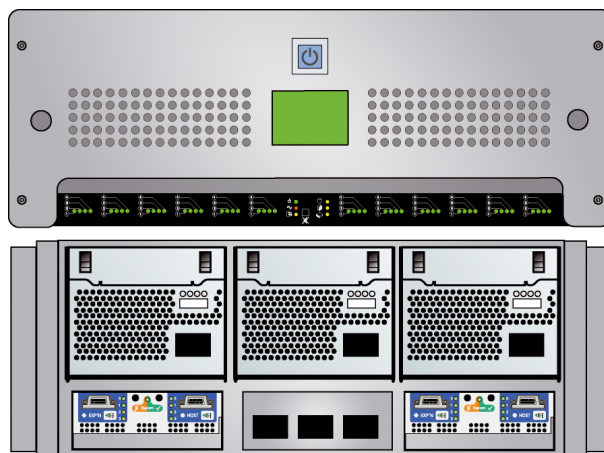
### Warranty Information

<b>Enclosures with Drives</b>	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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