

3Gb SAS-SAS/SATA-II EBOD

RS-1220-E3-EBD

Xyratex expands on the flexibility and reliability of our SAS/SATA EBOD technology with the introduction of the 12 bay enclosure, to compliment the 16 bay product, capable of supporting system performance and capacity with SAS and SATA II (3G) storage in a single enclosure.

• Delivering a Highly Flexible Solution

As the demand for storage is ever increasing, so also are the requirements for reliability, availability and serviceability of data. The Xyratex RS-1220-E3-EBD delivers a highly flexible solution designed to address the requirements of these applications with the optimal blend of performance, reliability and cost in a single enclosure supporting an Expanded Bunch of Disks (EBOD).

The advanced Serial Attached SCSI (SAS) architecture of the RS-1220-E3-EBD eliminates the performance bottleneck associated with Parallel SCSI interface, resulting in a significant improvement in performance, scalability and system availability over legacy SCSI products. Through the use of serial interfaces and an integrated SAS expander, modules are capable of supporting SAS and Serial ATA (SATA) drives, combining the performance features of online SAS drives with the cost effectiveness of Nearline SATA drives on a common backplane in a single enclosure.

• Assuring Robust Data Availability

The RS-1220-E3-EBD enables the customer to provide tiered storage solutions with either low cost SATA II (3G) drives or high performance SAS drives to optimize the storage "performance vs. cost" factor for their specific application. By utilizing this tiered storage model, the RS-1220-E3-EBD enables customers to support both mission critical primary data and archival data with one solution.

The Xyratex RS-1220 enclosures have 12 hot-swappable disk drives in just 2 standard units of rack space, industry-leading capacity in this form factor. Designed with hot-swappable controllers, power supplies, cooling modules and enclosure management functions, this fully-redundant enclosure is designed to meet the demands of 24/7 operation.

Xyratex's StorView for JBOD software enables users to monitor and administer the enclosure and drives attached to a system. An optional upgrade to StorView Global Manager for JBOD enables customers to monitor and manage the enclosure from any location anywhere on the network.



Features

- Support for SAS & SATA II (3Gb) drives in multiple enclosure configurations
- Three 4-lane 3Gb SAS connectors per control module.
- Delivers an enterprise-class HA design with no single point of failure.
- Multi-initiator support is provided for SAS devices
- Utilizes SES 2 for advanced platform management features
- StorView™ server based management software
- Single & dual SAS I/O controller support
- SAS 1.1 compliant
- Qualified with SAS HBAs and PCI-RAID controllers
- Active-Active Mux support to enable HA SATA configuration

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• Technical Specification

General Information

Product Code	RS-1220-E3-EBD2
Controller	Single/dual EBOD controllers
Performance	Up to 1200 MB/s
External Interface	4 lane 3Gb SAS ports
Host/Expansion Interface	Three 4 lane serial attached SCSI (SAS) connectors SFF8088 (mini SAS)
Error/Status Reporting	SES (SCSI Enclosure Services) 2.0
Maximum System Configuration	5 enclosures at first release extending to 8 enclosures on subsequent releases

Disk Drives

Disk Drives Supported¹	12 per enclosure. For a full list of supported drives and HBAs, please contact your account or sales manager.
Device Types Supported	SAS, SATA II (3Gb)

System Availability

Hot Swappable Components	Disk drives, I/O Modules, power supplies and cooling module
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Dimensions

Height	87.9mm (3.46") 2 EIA units
Width	443.7mm (17.49") IEC Rack Compliant
Depth	550mm (21.65")
Weight	32.2Kg (71 lbs.) dual controller configuration with drives

Altitude, Power and Temperatures

Operational Altitude	0 to 3,045m (0 to 10,000')
Non-operational Alt.	-305 to 12,192m (-305 to 40,000')
Voltage	100-240VAC
Frequency	-50/60 Hz
Power Supply Rating	350W
Temperature Range	+5° to +40°C (+41° F to +104° F) 35°C max. above 2,000m
Humidity	20% to 80% non-condensing

Shock and Vibration

Operational Shock	5g 10ms ½ sine
Operational Vibration	Random 0.21g 5-500Hz
Non-op. Shock	30g 10ms ½ sine
Non-op. Vibration	Random 1.04g 2-200Hz
Relocation Vibration	Swept Sine 0.3g 2-200Hz
Acoustics	<5.9 dB LwA @20°C

Approvals

UL and cUL listed. Tested to UL/IE/EN 60950. Certified Body Certificate & Report to IEC60950.
CE marked to the requirements of the Low Voltage Directive 73/23/EEC and the Electromagnetic Compatibility Directive 89/336/EEC. FCC Class A. EMC: EN55022/EN61000-3-2; EN61000-3-3.

Warranty Information

Enclosures with drives	Up to 3 years. Please contact Xyratex for detailed warranty information.
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Environmental Standards



ISO 14001: 2004 Cert No. EMS91560



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