

OneStor™ SP2424s

Extensible Storage Platform (ESP)

The proliferation of digital content in the enterprise has created increasingly complex and costly storage systems. These systems consume large amounts of energy and prevent companies from easily adapting their IT infrastructure as needs change. As the pace of change continues to accelerate, the evolution of storage technologies has become essential. OEMs and solution integrators need an extensible storage infrastructure that provides flexibility, reliability and energy efficiency to meet diverse application requirements. These include applications in digital media, in compliance retention and in data archival.

The OneStor SP2424s introduces a totally new architecture that leverages the reuse of common FRUs, a common management API and SBB 2.0 compatibility. This enables OEMs to accelerate market introduction of new technologies and also significantly simplifies development and testing of storage implementations while reducing overhead.

• Xyratex Advancing 6Gb/s SAS

The Xyratex implementation of 6Gb/s SAS offers a number of significant improvements to 3Gb/s SAS over and above the doubling of the data transfer rate from 3 Gb/s to 6Gb/s. These include support and capabilities for longer cable lengths, active cables, universal ports, self configuration, and standardized zoning. Xyratex supports 6Gb/s SAS in end-to-end configurations providing an effective maximum throughput of 7.2 GB/s per I/O module or 14.4 GB/s in a dual controller configuration, enough to support the highest performing solid state storage devices.

• Delivering a Versatile and Scalable Architecture

As a member of the OneStor family, the SP2424s leverages the reuse of interchangeable FRUs, a common enclosure management and SBB 2.0 compatibility. This enables OEMs to accelerate market introduction of new technologies and also significantly simplifies development and testing of storage implementations while reducing overhead.

• Assuring Robust Data Availability

Through its intelligent Genesis Enclosure Management (GEM), OneStor ESP safeguards data and ensures maximum availability. Users are able to leverage fault diagnosis and resolution capabilities, persistent error logging and monitoring. In addition, OneStor provides high availability features such as N+1 PCMs, dual I/O modules and dual data paths to all drives.

• Generating Energy Efficiency Savings

OneStor minimizes environmental impact through new "green" advancements in Xyratex technology including: individual drive power control; advanced adaptive cooling technology and 80+ percent efficient power conversion. Additionally, OneStor is designed to meet stringent worldwide requirements for recycling and environmental friendliness.

• Customizing to Meet OEM Specific Requirements

OEMs can easily tailor each OneStor platform to meet end product requirements, including colored plastics, custom mouldings, labelling, logo printing and product packaging.



Features

- 4U rack-mount enclosure
- Up to 24 SAS and SATA hard disk drives or solid state drives
- Expansion capability up to 144 drives
- Dual 6Gb SAS I/O modules with integral data path redundancy
- Adaptive cooling technology
- 80+ percent efficient power conversion
- Maximum of 14.4 GB/s in a dual controller configuration
- Deploys the latest SAS to SATA drive bridging technology

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• Features and Capabilities

General Information

Product Code	HB-2435-E6-2EBD-2P580
Controller	Dual EBOD Storage Bridge Bay (SBB) 2.0 compatible controllers per enclosure
Host/Expansion Interface	Three universal x4 6Gb mini-SAS connectors (SFF-8088) per I/O module
Management/Status Reporting	CLI and SCSI Enclosure Services (SES)
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 6 enclosures for a total of 144 drives

Disk Drives

Device Types Supported	Dual ported 6Gb/s SAS and SATA drives (via SAS to SATA bridge interposer)
Max Drives per Enc.	24 (For a full list of supported drives, please contact your account or sales manager.)

System Availability

Hot Swappable Components	Disk Drives, Power Cooling Module (PCM) and SBB I/O modules
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Dimensions

Height	175mm (6.89") 4 EIA units
Width	483mm (19") IEC rack compliant
Depth	630mm (24.8")
Weight	46Kg (101.41lbs) with drives

Altitude, Power and Temperatures

Operational Altitude	0 to 3,000m (0 to 10,000')
Non-operational Alt.	-300 to 12,192m (-1000 to 40,000')
Voltage	100-240V AC
Frequency	60/50Hz
Power Conversion Efficiency	>83% @ 100V, >85% @ 240V (>30% load)
Temperature Range	5° to 40°C (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	Sound Power Operating L _{wa} 6.8dB (re 1pW@23°C)

Approvals

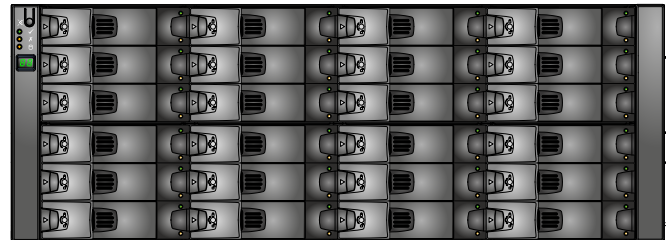
EMC	FCC pt15B Class A, EN55022 Class A, CISPR 22 Class A, EN 55024, CISPR24, EN61000-3-2/3, CNS13438
Safety	EN/IEC/UL 60950-1, CNS14336 CB report: CE, UL, cUL, FCC, BSMI, VCCI

Warranty Information

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

Xyratex is registered through BSI to the international environmental management systems standard ISO 14001:2004, and holds certificates for each of its three manufacturing sites at Havant, UK; Sacramento, CA and Seremban, Malaysia.



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