

OneStor™ SP1424s

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.

• Delivering a Versatile and Scalable Architecture

The OneStor SP1424s 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.

• Assuring Robust Data Availability

Through its Genesis Enclosure Management (GEM), OneStor ESP safeguards data and ensures maximum availability. Users are able to leverage fault diagnosis and resolution capabilities, error logging and monitoring. In addition OneStor provides high availability features such as N+1 PSUs, 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: scalable power supply profiles based on disk selection; individual drive power control; advanced adaptive cooling technology and 85+ percent efficient power conversion. Additionally OneStor is designed to meet stringent worldwide requirements for recycling and environmental friendliness.

• Customizing to Meet OEM Specific Requirements

By utilizing the Xyratex OneStor OEM Developers Kit (ODK) to design custom “personality modules,” OEMs and system integrators can easily tailor deployment of high performance storage solutions as their requirements and technologies evolve. Example personality modules may include server blades, RAID controllers and NAS devices, all of which could then be deployed across the entire OneStor ESP family.



Features

- 4U rack-mount enclosure
- Up to 24TB of tiered SAS and SATA disk drive storage
- Dual 3Gb SAS I/O modules with integral data path redundancy provides high availability
- Adaptive cooling technology
- 85+ percent efficient power conversion
- The one storage platform for a wide variety of storage and application environments

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Features and Capabilities

General Information

Product Code	HB-2435-B2E3-EB2 & HB-2435-B2E3-2EB2
Controller	Single/dual EBOD SBB 2.0 compatible controllers per enclosure
Host/Expansion Interface	Three 4-lane 3Gb mini-SAS connectors per I/O module
Management/Status Reporting	StorView™ Web GUI, CLI, SES (SCSI Enclosure Services)
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 4 enclosures - total of 96 drives

Disk Drives

Device Types Supported	SAS (3Gb) direct dock (dual port) and SATA II (3Gb) direct dock (single port) & active/active (dual port via 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 Modules, 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

Rack Requirements

Height (max)	42U
Width (post-to-post)	483mm (19")

Altitude, Power and Temperatures

Operational Altitude	0 to 3,048m (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	>80% @ 100V, >80% @ 240V (>30% load)
Temperature Range	5° to 40°C (35°C max. above 2,133m)
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} 6.8Bels (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

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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