

OneStor™ SP1224s

Extensible Storage Platform (ESP)

In high-value, transaction-intensive environments ranging from email servers and corporate databases to online-trading and POS processing, time is money. IT Executives must adapt to tighter Service Level Agreement (SLA) requirements demanding faster response times and higher availability, while at the same time reducing data center power consumption. The OneStor SP1224s is designed for maximum IOPS at minimum energy consumption. OEMs and solutions integrators can deploy the SP1224s as part of a tiered storage infrastructure, or rack them from floor to ceiling for truly transaction-intensive applications.

• Enabling the Transition to Higher IOPS Performance

By utilizing cutting-edge, enterprise-class 2.5" Small Form Factor (SFF) drives, the OneStor SP1224s provides twice the IOPS per unit of rack storage when compared to the same number of 3.5" SAS drives. As the industry makes this important transition to SFF technology, Xyratex is leading the way to higher IOPS density and more efficient use of data center floor tile space.

• Cutting Energy Consumption in Half

In addition to the "green" advancements common to the Xyratex OneStor family including: individual drive power control, advanced adaptive cooling and 85+ percent efficient power conversion – the SFF drives in the SP1224s utilize about half the wattage of comparable 3.5" drives. This reduces energy consumption of both the storage system – and the associated HVAC used to cool the data center.

• Delivering a Versatile and Scalable Architecture

The OneStor SP1224s leverages the reuse of common FRUs, a common management API and Storage Bridge Bay (SBB) 2.0 compatibility. This enables OEMs and solutions integrators to accelerate market introduction of new technologies across a scalable family of disk and enclosure form-factors, while reducing associated costs.

• 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, persistent error logging and remote system monitoring. In addition, OneStor provides high availability features such as N+1 PSUs, dual I/O modules and dual data paths to all drives.

• 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 tailor deployment of high performance storage solutions as their requirements and technologies evolve. Example personality modules may include server modules, RAID controllers and NAS devices, all of which could then be deployed across the entire OneStor ESP family.



Features

- 2U rack-mount enclosure
- Up to 24 high-performance SFF drives
- Expansion capability up to 96 drives
- Dual 3Gb SAS I/O modules with integral data path redundancy
- Adaptive cooling technology
- 85+ percent efficient power conversion

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• Features and Capabilities

General Information

Product Code	EB-2425-B2E3-EB21 & EB-2425-B2E3-2EB21
Controller	Single/dual EBOD SBB 2.0 compatible controllers per enclosure
Host/Expansion Interface	Three SFF-8086 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) 2.5" disk drives. For a full list of supported drives, please contact your account or sales manager.
Max Drives per Enc.	24

System Availability

Hot Swappable Components	Disk drives, PSU/cooling modules & SBB I/O modules
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Dimensions

Height	87.9mm (3.5") 2 EIA Units
Width	483mm (19") IEC Rack Compliant
Depth	630mm (24.8")
Weight	24Kg (52.91lbs) with drives

Rack Requirements

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

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	>80% @ 100V, >80% @ 240V (>30% load)
Temperature Range	5° to 40°C (35°C max. above 2,133m)
Humidity	8% to 80% non-condensing

Shock and Vibration

Operational Shock	5g 10ms ½ Sine
Operational Vibration	Random 0.21g RMS 5-500Hz
Non-op. Shock	30g 10ms ½ Sine
Non-op. Vibration	Random 1.04g RMS 2-200Hz
Relocation Vibration	Swept Sine 0.3g 2-200Hz
Acoustics	Sound Power Operating < L _{wa} 6.3Bels (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, CNS14336CB 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



ISO 14001: 2004 Cert No. EMS91560



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