

# OneStor™ SP2212s

## Extensible Storage Platform (ESP)

With the SP2212s, Xyratex has brought enterprise-class features to the value-oriented SMB market segment. The 2U 12-bay form-factor is perhaps the most widely deployed across this important segment, and for many applications, the SP2212s is the perfect size. As a building block, the SP2212s is easy to lift, install and deploy. It is suited equally well as a DAS behind a RAID HBA, or as an integrated component of a broader OEM solution. IT managers appreciate features such as two-digit front-panel shelf ID, activity and status indicators for all key components, mutable audible alarms and lockable carriers. With a “no single point of failure” design and support for both SAS and SATA drives, the SP2212s is ready to fulfill a wide variety of applications.

### • 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 3Gb/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 7.2GB/s per I/O module or 14.4GB/s in a dual I/O module 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 SP2212s leverages the reuse of interchangeable field replaceable units (FRUs), a universal 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 Power Cooling Modules (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

- 2U rack-mount enclosure
- Up to 12 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 14.4GB/s in a dual I/O module configuration
- Deploys the latest SAS to SATA drive bridging technology

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## Extensible Storage Platform (ESP)

### • Features and Capabilities

#### General Information

<b>Product Code</b>	HB-1235-E6-2EBD-2P580
<b>Controller</b>	Dual EBOD SBB 2.0 compatible controllers per enclosure
<b>Host/Expansion Interface</b>	Three universal x4 6Gb/s mini-SAS connectors (SFF-8088) per I/O Module
<b>Management/Status Reporting</b>	CLI and SCSI Enclosure Services (SES)
<b>Maximum System Configuration</b>	Dual host-connected enclosure with a maximum expanded configuration of 12 enclosures for a total of 144 drives

#### Disk Drives

<b>Device Types Supported</b>	Dual ported 6Gb/s SAS and SATA drives (via SAS to SATA bridge interposer)
<b>Max Drives per Enc.</b>	12 (For a full list of supported drives, please contact your account or sales manager.)

#### System Availability

<b>Hot Swappable Components</b>	Disk Drives, Power Cooling Modules, and SBB I/O Modules
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#### Dimensions

<b>Height</b>	87.9mm (3.46") 2 EIA Units
<b>Width</b>	483mm (19") IEC Rack Compliant
<b>Depth</b>	630mm (24.8")
<b>Weight</b>	26Kg (57.2lbs) with drives

#### Altitude, Power and Temperatures

<b>Operational Altitude</b>	0 to 3,000m (0 to 10,000')
<b>Non-operational Alt.</b>	-300 to 12,192m (-1000 to 40,000')
<b>Voltage</b>	100-240V AC
<b>Frequency</b>	60/50Hz
<b>Power Conversion Efficiency</b>	>80% @ 100V, >80% @ 240V (>30% load)
<b>Temperature Range</b>	5° to 40°C (35°C max. above 2,000m)
<b>Humidity</b>	20% to 80% non-condensing

#### Shock and Vibration

<b>Operational Shock</b>	5g 10ms ½ Sine
<b>Operational Vibration</b>	Random 0.21g RMS 5-500Hz
<b>Non-op. Shock</b>	30g 10ms ½ Sine
<b>Non-op. Vibration</b>	Random 1.04g RMS 2-200Hz
<b>Relocation Vibration</b>	Swept Sine 0.3g 2-200Hz
<b>Acoustics</b>	Sound Power Operating <L <sub>wa</sub> 6.3Bels (re 1pW) @ 23°C

#### Approvals

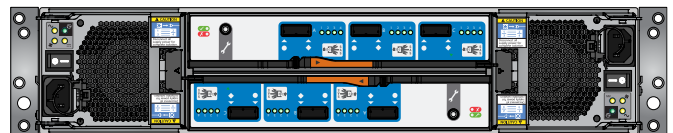
<b>EMC</b>	FCC pt15B Class A, EN55022 Class A, CISPR 22 Class A, EN 55024, CISPR24, EN61000-3-2/3, CNS13438
<b>Safety</b>	EN/IEC/UL 60950-1, CNS14336 CB report: CE, UL, cUL, FCC, BSMI, VCCI, CCC (PSU only)

#### Warranty Information

<b>Enclosures with drives</b>	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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