OneStor™ SP-3224

Data Sheet

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 SP-3224 is designed for maximum IOPS at minimum energy consumption. This is achieved by utilizing enterprise-class 2.5" Small Form Factor (SFF) drives, which 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, Seagate is leading the way to higher IOPS density and more efficient use of data center floor tile space.

Seagate Advancing 12Gb/s SAS

The Seagate implementation of 12Gb/s SAS offers a number of significant improvements to 6Gb/s SAS over and above the doubling of the data transfer rate from 6 Gb/s to 12 Gb/s. These include support and capabilities for managed cable, active and optical cables, universal ports, self configuration, and standardized zoning. Seagate supports 12Gb/s SAS in end-to-end configurations providing an effective maximum throughput of 14.4 GB/s per I/O module or 28.8 GB/s in a dual controller configuration, enough to support the highest performing solid state storage devices.

Delivering a Versatile & Scalable Architecture

As a member of the OneStor family, the SP-3224 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.

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Assuring Robust Data Availability

Through its intelligent Unified System Management (USM), OneStor 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 Seagate technology including: individual drive power control; advanced adaptive cooling technology and 90 PLUS® Platinum Certified power efficiency 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 moldings, labeling, logo printing and product packaging.

- 2U rack-mount enclosure
- Up to 24 SAS and SATA hard disk drives or solid state drives
- Maximum of 28.8GB/s in a dual I/O module configuration
- Expansion capability up to 144 drives
- Dual 12Gb SAS I/O modules with integral data path redundancy
- 90 PLUS® Platinum Certified power efficiency conversion and adaptive cooling technology
- Deploys the latest SAS to SATA drive bridging technology

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Specifications

General Information	
Product Code	EB-2425-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 supply units (PSUs), cooling modules and SBB I/O Modules
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	5º to 40ºC (35ºC max. above 2,000m)
Humidity	20% to 80% non-condensing
Dimensions	
Height	88.9mm (3.5") 2 EIA Units
Width	483mm (19") IEC rack compliant
Depth	630mm (24.8")
Weight	24Kg (52.9lbs) with drives
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 ≤ 6.5 Bels LWAd @ 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, CCC (PSU only)
Warranty Information	
Enclosures with drives	Please contact Seagate for detailed warranty information.
Environmental Standards	
90 PLUS® Platinum Certified power efficiency conversion and adaptive cooling technology Seagate is registered through BSI to the international standard for environmental management systems ISO 14001:2004 and holds certificates for each of its three manufacturing locations at Havant UK, Guadalajara Mexico and Seremban Malaysia.	

Take the Next Step:

To learn more about Seagate® Cloud Systems and Solutions, visit www.seagate.com/oem

seagate.com

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