

OneStor™ SP-2584

Data Sheet

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 SP-2584 introduces a totally new architecture that leverages the reuse of I/O modules, 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.

Seagate Advancing 6Gb/s SAS

The Seagate 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. Seagate 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.

Delivering a Versatile & Scalable Architecture

As a member of the OneStor family, the SP-2584 leverages the reuse of interchangeable I/O modules, 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 dual redundant PSUs, N+1 cooling modules, dual I/O modules and dual data paths to all drives.

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.

- 5U rack-mount enclosure stores up to 3 petabytes of data per rack, saving space in the data center
- Certified 80 PLUS Gold (optional 90 PLUS Platinum) efficient power conversion and adaptive cooling technology reduces power and cooling costs
- Data center space savings + power and cooling cost savings = exceptionally low total cost of ownership
- Ultra-dense, with up to 84 3.5" form factor SAS and/or SATA hard disk drives or solid state drives per 5U enclosure
- Unique drawer design provides the highest density per rack unit in the industry, with easy access to hot swap drives
- Over 500 terabytes in 5U using 6 terabyte enterprise HDDs (8TB drives available in 1H15)
- Expansion capability up to 336 drives Dual 6Gb SAS I/O modules with integral data path redundancy
- Maximum of 14.4 GB/s in a dual controller configuration





OneStor™ SP-2584

Specifications	
General Information	
Product Code	SP-2584-E6-2EBD-2P2800
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 4 enclosures for a total of 336 drives
Disk Drives	
Device Types Supported	Dual ported 6Gb/s SAS and SATA drives (via SAS to SATA bridge interposer)
Max Drives per Enc.	84 (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	200-240V AC
Frequency	60/50Hz
Power Conversion Efficiency	92% @ 240V (50% load)
Temperature Range	5° to 35°C (de-rate 5°C above 2,133m (7,000'))
Humidity	20% to 80% non-condensing
Dimensions	
Height	220mm (8.65") 5 EIA units
Width	483mm (19") IEC rack compliant
Depth	933mm (36.75")
Weight	128Kg (282lbs) 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 ≤ 8.0 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	
Disk enclosures 80 PLUS® Gold Certified power efficiency with adaptive cooling, or option for 90 PLUS® Platinum Certified power efficiency with 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:

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