



# OneStor™ SP-3584

## Extensible Storage Platform (ESP)

Regulatory Model No. SP-2584  
Data Sheet



### Features

- 5U rack-mount enclosure stores up to 5 petabytes of data per rack, saving space in the data center
- Certified 80 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" SAS hard disk drives or solid state drives per 5U enclosure
- Unique drawer design provides extremely high density per rack unit, and provides easy access to hot swap drives
- Capacity of 840Tb in 5U using 10Tb enterprise HDDs
- Expansion capability up to 336 drives Dual 12Gb SAS I/O modules with integral data path redundancy
- Maximum of 28.8 GB/s in a dual controller configuration

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-3584 evolves the mature SP-2584 platform to 12G SAS while maintaining the prior architecture utilizing significant hardware reuse, 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 12Gb/s SAS

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 cables, 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-3584 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.

#### Assuring Robust Data Availability

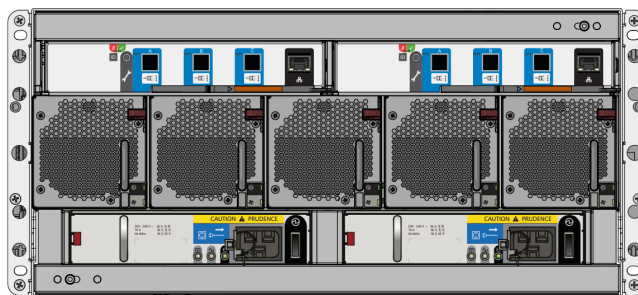
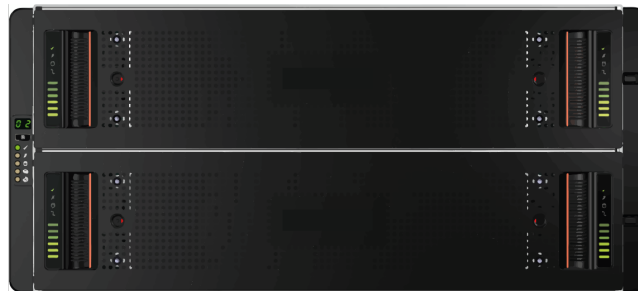
Through its intelligent Unified System Management (USM), OneStor safeguards data and ensures maximum availability. Users are able to leverage fault diagnosis and resolution capabilities, persistent error logging and monitoring. In addition, OneStor provides high availability features such as dual redundant 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.

Features and Capabilities	
<b>General Information</b>	
Product Code	SP-3584-E12-2EBD-2P2200
Controller	Dual EBOD Storage Bridge Bay (SBB) 2.1 compatible I/O Modules per enclosure
Host/Expansion Interface	Three universal x4 12Gb mini-SAS connectors (SFF-8644) per I/O module
Management/Status Reporting	CLI via RS232 and 100Base-T port, SCSI Enclosure Services (SES) via SAS SFF-8644 ports.
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 4 enclosures for a total of 336 drives
<b>Disk Drives</b>	
Device Types Supported	Dual ported 12Gb/s SAS
Max Drives per Enclosure	84 (For a full list of supported drives, please contact your account or sales manager.)
<b>System Availability</b>	
Hot Swappable Components	Disk drives, power supply units (PSUs), cooling modules, side planes and SBB I/O Modules
<b>Dimensions</b>	
Height	220mm (8.65") 5 EIA units
Width	483mm (19") IEC rack compliant
Depth	933mm (36.75")
Weight	135Kg (298lbs) with drives, no rail kit
<b>Altitude, Power and Temperatures</b>	
Operational Altitude	-100 to 3000m (-330 to 10000')
Non-operational Altitude	-100 to 12,192m (-330 to 40,000')
Voltage	200-240V AC
Frequency	60/50Hz
Power Conversion Efficiency	94% @ 240V (50% load)
Temperature Range	5° to 35°C (de-rate 5°C above 2,133m (7,000'))
Humidity	10% to 80% non-condensing
<b>Shock and Vibration</b>	
Operational Shock	5g 10ms ½ Sine (Z-axis), 20g 10ms ½ Sine (X- and Y-axes).
Operational Vibration	Random 0.21g RMS 5-500Hz
Non-operational Shock	30g 10ms ½ Sine
Non-operational 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

Compliance	
<b>Safety</b> (latest edition/amendments)	
UL 60950-1	certification for USA and Canada
EN 60950-1	certification for European Union
IEC 60950-1	for CB certification
<b>EMC</b>	
North America	CFR 47 Part15, subpart B, class A; ICES-003 Class A
Europe	EN55022 Class A, EN55032 Class A, VCCI V-3, AS/NZS CISPR 22, EN55024, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, SANS 224, KN35
<b>Standard Marks/Approvals in Seagate Brand</b>	
North America	FCC, UL, cUL, ICES/NMB-003 Class A
Europe	CE
China	CCC (PSU Only)
Taiwan	BSMI
Korea	MSIP (formerly KCC)
Japan	VCCI
Australia/New Zealand	RCM (formerly C-tick)
Additional country approvals, configuration changes, and Branding on application to Seagate	



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