

# Spectrum™ MediaStore 5000

## STORAGE ARRAYS



MediaStore 5000 storage arrays provide scalable and reliable high-performance, disk-based shared storage for Spectrum™ media server systems. Up to 24 serial-attached SCSI (SAS) disk drives can be integrated into each compact, 2-RU MediaStore 5000 chassis, and up to four MediaStore chassis can be linked in a single Spectrum system. With disk capacity options of 300 GB, 900 GB or 1.2 TB, broadcasters can access up to 83.4 TB of usable online storage, making it easy to tailor a Spectrum system to their exact needs.

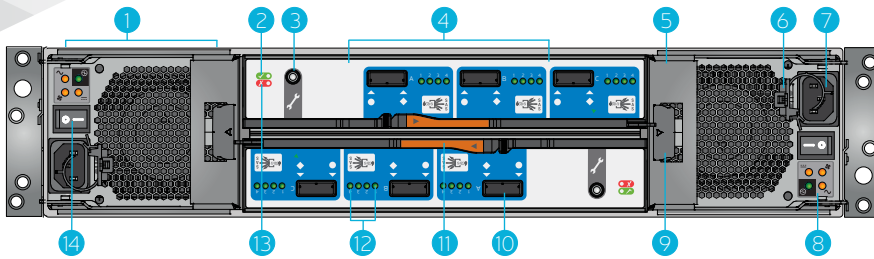
Each hot-swappable drive in a MediaStore 5000 enclosure is connected via two integral SAS expanders. Storage capacity can be added at any time without disrupting on-air operations, while SAS connectivity between MediaStores and the rest of the system guarantees the bandwidth required for real-time media operations. Up to four MediaStores can be daisy-chained in a single Spectrum system to create a complete server solution with unmatched bandwidth and storage capacity.

The MediaStore 5000 chassis connects to Spectrum MediaCenter 2251, 2252, 2251B or 2252B system controllers using two 6-Gbps SAS interfaces, providing the advantages of high throughput and complete path redundancy. Every MediaStore 5000 also includes dual redundant power supplies with automatic failover, integrated fans and separate power cables. Since all disk subsystem management is provided in software by MediaDirector — including all file system and RAID information — no hardware controller is required.

In addition to SCSI enclosure service (SES) support, Spectrum provides advanced drive diagnostics and error-correction capabilities. Configurable alerts and notifications enable users to easily maintain and manage their MediaStore 5000 system, resulting in the industry's highest level of storage resiliency.

## HIGHLIGHTS

- Up to 24 high-performance, hot-swappable SAS drives per chassis
- Three drive sizes available: 300 and 900 GB, and 1.2 TB
- 6-Gbps SAS interfaces
- Redundant hot-swappable power supplies with redundant fans and separate power cables
- SCSI enclosure service (SES) support



- 1 Power Cooling Module (PCM) (A = left, B = right)
- 2 I/O Module Power LED
- 3 Service Use Only
- 4 I/O Module (Primary = top, Secondary = bottom)
- 5 PCM Handle
- 6 Power Supply Retainer
- 7 Power Supply
- 8 PCM LEDs
- 9 PCM Release Latch
- 10 Serial-Attached SCSI (SAS) Connectors
- 11 I/O Module Latch
- 12 SAS Link Activity LEDs (4 links per port)
- 13 I/O Module Fault LED
- 14 PCM Power Button

## SPECIFICATIONS

### DRIVES

Drives Supported	16 or 24 SAS disk drives 300 or 900 GB; 1.2 TB
Host Interface	6 Gbps SAS
Drive Interface	6 Gbps SAS
Shock Operational	5 g 10 ms ½ sine (vertical axis) 30 g 10 ms ½ sine
Vibration Operating	0.21 g RMS 5-500 Hz random
Vibration Non-Operating	1.04 g RMS 2-200 Hz random
Relocation	0.3 g 2-200 Hz sine, 0.4 decades per minute

### POWER

Power Supply	Redundant, hot-swappable
Input Voltage Range	Auto ranging, 90 to 264 VAC
Line Frequency	47/63 Hz
Power Cord	Two, 6 ft/1.83 m
Consumption 16 Drives	254 W typical/333 W maximum
Consumption 24 Drives	282 W typical/396 W maximum

### PHYSICAL

Dimensions (W x H x D)	17.5 in x 3.46 in x 22.71 in (2 RU) 44.3 cm x 8.79 cm x 57.68 cm
Weight	55 lbs/25 kg maximum total weight, enclosure fully populated

## CONFIGURATIONS

Drive Size	Part Number	Number of Drives	RAID Set	Usable Storage
300 GB	MSS-5016-03H	16	2 (6 + 2)	3.49 TB
	MSS-5024-03H	24	3 (6 + 2)	5.23 TB
900 GB	MSS-5016-09H	16	2 (6 + 2)	10.47 TB
	MSS-5024-09H	24	3 (6 + 2)	15.71 TB
1.2 TB	MSS-5016-12H	16	2 (6 + 2)	13.97 TB
	MSS-5024-12H	24	3 (6 + 2)	20.95 TB

## OPTIONAL ACCESSORIES AND SPARE PARTS

Part Number	Description
SP-0115-001	1 m SAS cable, MiniSAS to MiniSAS, for MCP-2251 and MCP-2252
SP-0116-001	2 m SAS cable, MiniSAS to MiniSAS, for MCP-2251 and MCP-2252
SP-0117-001	5 m SAS cable, MiniSAS to MiniSAS, for MCP-2251 and MCP-2252
SPR-SPECT-SAS-CABLE-1M-001	1M SFF-8644 TO SFF-8088 SAS cable for MCP-2251B and MCP-2252B
SPR-SPECT-SAS-CABLE-2M-001	2M SFF-8644 TO SFF-8088 SAS cable for MCP-2251B and MCP-2252B
SPR-SPECT-SAS-CABLE-5M-001	5M SFF-8644 TO SFF-8088 SAS cable for MCP-2251B and MCP-2252B
SP-0110-001	300 GB SAS hard disk drive
SP-0111-001	600 GB SAS hard disk drive
SP-0112-001	900 GB SAS hard disk drive
SP-0125-001	1.2 TB SAS hard disk drive
SP-0113-001	Spare power supply module
SP-0118-001	Spare SAS I/O module

### ENVIRONMENTAL

Operating Temperature Range	+41º to 104º F/+5º to 40º C
Operational Relative Humidity	10-80% non-condensing

### STANDARDS & REGULATIONS

Safety	UL 60950-1 2nd Edition CSA C22.2 Information Technology Equipment - Safety - part 1: General Requirements
CE	Low Voltage Directive (73/23/EEC) including amendments EN60950:1992, A1+A2+A3+A4 Safety of Information Technology Equipment
Electromagnetic Compliance	USA: FCC Part 15 Class A Japan: VCCI Class A Australia, New Zealand, EU: CISPR 22 Class A Taiwan: CNS 13438 Class A Canada: ICES-003 Class A EU: EN55022/EN55024 Class A Korea: KN22/KN24 Class A