

Spectrum™ MediaStore 5100

STORAGE ARRAYS



MediaStore 5100 storage arrays provide scalable and reliable high-performance, disk-based shared storage for Spectrum™ media server systems. Twenty-four serial-attached SCSI (SAS) disk drives are integrated into each compact, 2-RU MediaStore 5100 chassis, and up to four MediaStore chassis can be linked in a single Spectrum system. With disk capacity options of 300 GB, 600 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.

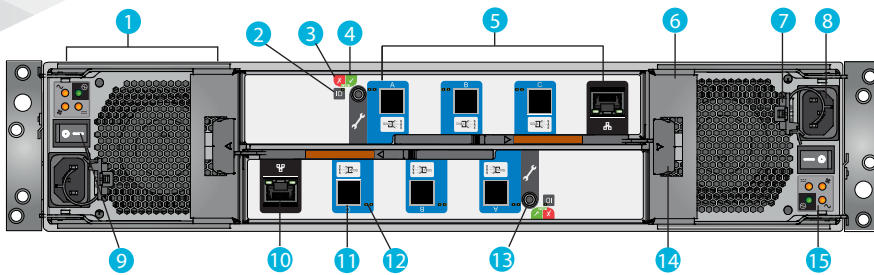
Each hot-swappable drive in a MediaStore 5100 enclosure is connected via two integral SAS expanders. Storage capacity can be added at any time without disrupting on-air operations, while SAS connectivity between MediaStores and the rest of the system guarantees the bandwidth required for real-time media 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 5100 chassis connects to Spectrum MediaDirector 2251, 2252, 2251B or 2252B system controllers using two 12-Gbps SAS interfaces, providing the advantages of high throughput and complete path redundancy. Every MediaStore 5100 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 5100 system, resulting in the industry's highest level of storage resiliency.

HIGHLIGHTS

- 24 high-performance, hot-swappable SAS drives per chassis
- Three drive sizes available: 300 and 600 GB, and 1.2 TB
- 12-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. ID/wink LED
- 3. I/O module Fault LED
- 4. I/O module OK LED
- 5. I/O module (Primary = top, Secondary = bottom)
- 6. PCM handle
- 7. Power supply retainer
- 8. Power supply
- 9. PCM power button
- 10. Ethernet connector (unused)
- 11. Serial-attached SCSI (SAS) Connector
- 12. SAS link activity LEDs
- 13. For Service use only
- 14. PCM release latch
- 15. PCM LEDs

SPECIFICATIONS

DRIVES

Drives Supported	24 SAS disk drives 300 or 600 GB; 1.2 TB
Host Interface	12 Gbps SAS
Drive Interface	12 Gbps SAS
Shock Operational	5 g 10 ms ½ sine (vertical axis) 30 g 10 ms ½ sine
Vibration Operating Non-Operating Relocation	0.21 g RMS 5-500 Hz random 1.04 g RMS 2-200 Hz random 1.3 g 2-200 Hz sine, 0.4 decades per minute

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

ENVIRONMENTAL

Operating Temperature Range	+41° to 104° F/+5° to 40° C
Operational Relative Humidity	20%-80% non-condensing

POWER

Power Supply	Redundant, hot-swappable
Input Voltage Range	Auto ranging, 90 to 264 VAC
Line Frequency	47/63 Hz
Power Cord	Two, 120V

CONFIGURATIONS

Drive Size	Part Number	Number of Drives	RAID Set	Usable Storage
300 GB	MSS-5124-03H	24	3 (6 + 2)	5.23 TB
600 GB	MSS-5124-06H	24	3 (6 + 2)	10.46 TB
1.2 TB	MSS-5124-12H	24	3 (6 + 2)	20.95 TB

OPTIONAL ACCESSORIES AND SPARE PARTS

Part Number	Description
SPR-MSS-5124-03HDD	300 GB SAS HDD drive for MediaStore 5100
SPR-MSS-5124-06HDD	600 GB SAS HDD drive for MediaStore 5100
SPR-MSS-5124-12HDD	1.2 TB SAS HDD drive for MediaStore 5100
SPR-SPECT-12G-SAS-CABLE-1M	1m cable, SFF-8644 mini-SAS HD to SFF-8644 mini-SAS HD. For MSS-7200 and MSS-5124.
SPR-SPECT-12G-SAS-CABLE-3M	3m cable, SFF-8644 mini-SAS HD to SFF-8644 mini-SAS HD. For MSS-7200 and MSS-5124.
SP-0113-001	Spare power supply module