

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 six MediaStore chassis can be linked in a single Spectrum system. With disk capacity options of 1.2 TB or 2.4 TB, broadcasters can access up to 251.4 TB of usable online storage, making it easy to tailor a Spectrum system to their exact needs.

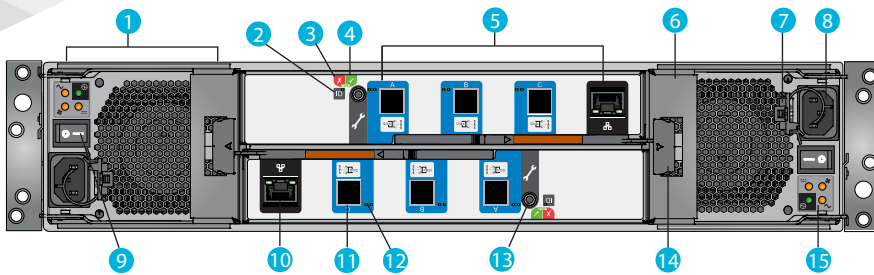
Each hot-swappable drive in a MediaStore 5100 enclosure is connected via two integral SAS expanders. Storage capacity can be added at any time without disrupting on-air operations, while SAS connectivity between MediaStores and the rest of the system guarantees the bandwidth required for real-time media operations. Up to six 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 2251B, 2252B or 2252C 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
- Two drive sizes available: 1.2 TB and 2.4 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 1.2 TB or 2.4 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	0.21 g RMS 5-500 Hz random
Vibration Non-Operating	1.04 g RMS 2-200 Hz random
Relocation	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	+41º to 104º F/+5º to 40º 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
1.2 TB	MSS-5124-12H	24	3 (6 + 2)	20.95 TB
2.4 TB	MSS-5124-24H	24	3 (6 + 2)	41.9 TB

OPTIONAL ACCESSORIES AND SPARE PARTS

Part Number	Description
SPR-MSS-5124-12HDD	1.2 TB SAS HDD drive for MediaStore 5100
SPR-MSS-5124-24HDD	2.4 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.
SPR-MSS-5124-PWR	Spare power supply module