



Spectrum MediaCenter SSD Rear View

HIGH-PERFORMANCE SOLID-STATE STORAGE

Spectrum MediaCenter SSD combines media server functions and high-performance solid-state drive (SSD) storage in a compact 2 RU enclosure. Ideal for moderate (4 to 12) channel count applications in uncompromising production and playout environments, the system uses NAND flash memory rather than traditional disk drives to deliver the highest levels of system reliability and efficiency. File system and communication management are employed to optimize video and audio ingest and playout activities.

MediaCenter supports a maximum of 600 Mbps real-time video bandwidth using up to six externally connected Spectrum MediaPort 7000 and 5000 series products, which provide video/audio interfaces as well as encode and decode for record and playback. This modular approach lets you configure systems to meet your needs today, while allowing for future expansion.

Clients access the system via up to four gigabit Ethernet (GbE) connections, and have access to FTP, CIFS and AFP services. Combined, these services offer network throughput of up to 225 MBps (varies with real-time play/record activity).

Storage options allow you to tailor the system to your specific capacity requirements. Six or 12 480-GB SSDs are available, providing total usable storage from 2.4 TB to 4.8 TB (95 to 190 hours at 50 Mbps). Storage can be partitioned into one or two 5+1 RAID sets, fully protecting content in the event of a drive failure.

Applications access the system using the same API as provided on all Spectrum-family products, protecting your investment and ensuring compatibility no matter what the platform. Management functions are offered via the familiar SystemManager console, simplifying configuration and monitoring of the system.

ROCK-SOLID RELIABILITY

Spectrum media servers are designed specifically to isolate potential problems so that a failure of one component does not disrupt operations across the rest of the system. Integrated SSD storage in MediaCenter further increases content availability in broadcast facilities where environmental factors might compromise traditional disk-drive performance. Redundancy features include:

- Disconnection of a media I/O module causes only that unit to stop operating until replaced or reconnected, while no other component in the system is affected.
- Failure of a power supply does not disrupt system operation. A replacement power supply can be hot-swapped while the system is running.
- Failure of a disk drive does not result in loss of content or even a dropped frame.

The isolation of component failures to minimize overall system impact is a key architectural advantage of the Spectrum MediaCenter SSD system. It lowers the risk of a catastrophic failure, since the impact of any one component is limited to only a portion of the system, and failed components can be quickly replaced while the system remains operational.



SPECTRUM MEDIACENTER SSD SPECIFICATIONS

Parameter	Specification	Detail
Video Channels	12 at 50 Mbps 6 at 100 Mbps	Maximum 600 Mbps total video play/record bandwidth available
MediaPorts	Maximum six total, Ethernet connected	Supports MediaPort 7000 and 5000 series No support for IEEE-1394 products
Storage	6 or 12 SSDs 480 GB each	2.4-4.8 TB usable in one or two 5+1 RAID sets 95-190 hours at 50 Mbps
Network	2 to 4 GbE ports	Two dedicated network ports; two additional ports configurable for network or MediaPort operation
Network Throughput	Maximum 200 MBps (600 Mbps video) Maximum 225 MBps (400 Mbps video)	Varies with total video channel bitrate
Reference	Per MediaPort	MediaCenter can support multiple timing standards on a single system. Reference is handled by the MediaPorts independently.
Environmental	Temperature Humidity	+5C to +40C 10-85% non-condensing
Safety	UL 60950-1 2 nd Edition CSA C22.2	Information Technology Equipment - Safety - Part 1: General Requirements
EMC	FCC 15 Class A VCCI Class A CISPR 22 Class A CNS 13438 Class A ICES-003 Class A EN 55022 Class A KN22 Class A	US Japan Australia, New Zealand, EU Taiwan Canada EU Korea
Dimensions	W: 44.4 cm (17.5 in) H: 8.8 cm (3.5 in) D: 68.6 cm (27 in) 71.1 cm (28 in)	Chassis only, inside rack 2 RU Bezel front to chassis rear Bezel front to rear of back connectors
Weight	20 kg (44 lb)	Chassis with 12 solid-state drives
Power	100-240 V, 50-60 Hz	Dual redundant hot-swappable power supplies

INCLUDED ACCESSORIES

Quantity	Description	Notes
2	Power Cord	
1	Rack Mount Hardware Kit	673.1 mm to 924.6 mm (26.5 in to 36.4 in)

SPARES

Part Number	Description
SP-0097-001	Rack Mount Hardware Kit, 482.6 mm to 675.6 mm (19 in to 26.6 in)
SP-0100-001	MediaCenter Front Bezel
SP-0101-001	MediaCenter Power Supply Module

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