Spectrum™ MediaCenter 2200D

MEDIA SERVER WITH INTEGRATED STORAGE

Ideal for moderate (up to 20) channel-count applications, the Spectrum™ MediaCenter 2200D media server from Harmonic provides file system and communication management and storage for video and audio ingest and playout at a compelling price point.

I/O on the 2-RU MediaCenter 2200D is provided by up to 10 Spectrum X advanced media server systems which provide video/audio interfaces as well as encode and decode for record and playback. Clients have access to FTP and SMB file transfer via dual 10-GBE connections. Combined, these capabilities provide network throughput of up to 225 MBps (depending on real-time play/record activity).

Storage options include up to 64 TB of integrated SAS storage, and up to 128 TB of external storage via the Spectrum MediaStore 7200 expansion storage chassis.

Rock-Solid Reliability

MediaCenter 2200D combines with Spectrum X to deliver advanced integrated playout capabilities. Ultra HD and 3G channel-in-a-box functionality is also supported with Spectrum X, as is SDI and IP I/O to ease the migration to IP workflows. When configured with Spectrum X, the MediaCenter 2200D helps you meet your master control requirements today while allowing for future expansion:

- Disconnection of a Spectrum X 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.

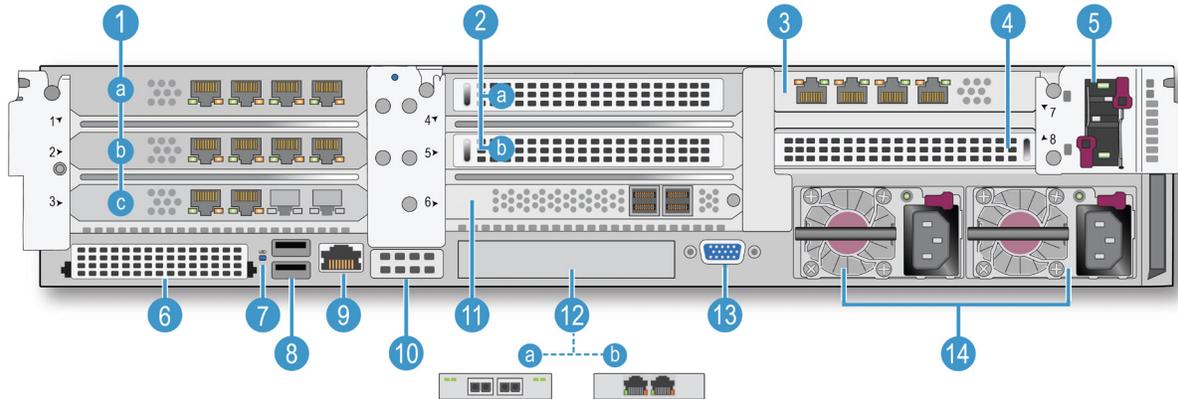- Dual redundant SAS connection to MediaStore 7200 expansion storage chassis

The isolation of component failures to minimize overall system impact is a key architectural advantage of the MediaCenter 2200D server. 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.

HIGHLIGHTS

- Compact media server solution for up to 20 channels
- Choice of integrated HDD storage: 32- or 64-TB usable
- Optional external HDD expansion storage, up to 128 TB usable

- Easily add features to support new services, ensuring complete investment protection
- Implement best-of-breed solutions for transmission, studio production, news and sports highlights, and distributed broadcast workflows

- Choose from hundreds of applications, enabled by broad support built around open standards and APIs
- Support for uncompressed IP workflows via SMPTE ST 2110 and 2022-6 I/O

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harmonic

1. 1Gbps connections to Spectrum I/O
   a. Ports 0-3, left to right
   b. Ports 4-7, left to right
   c. Ports 8-9, left to right
   (Ports 10-11 not in use, plugged)

2. Filler panels

3. 1Gbps for connections for system management (eth0, eth1, eth2, eth3 in software, left to right)

4. Filler panel

5. NVMe redundant boot drives

6. MegaRAID SAS controller

7. UID and wink LED (the wink function blinks the UID LED once per second)

8. USB connectors

9. Integrated lights-out (iLO) service management port

10. Filler panel

11. Serial-attached SCSI (SAS) connectors, Port A-B, left to right

12. 10 Gb Eth port options (use for file transfers):
    a. Two optical SFP ports
    b. Two copper RJ-45 ports

13. VGA connector

14. Redundant, hot-swappable power supplies (bay 2, bay 1, from left to right)

SPECIFICATIONS

VIDEO

Video Channels	20 @ 50 Mbps 10 @ 100 Mbps 6 @ 3G I-Frame
Video I/O Connections	Up to 10 dual-channel Spectrum X connections per MediaCenter chassis
Integrated HDD Storage	12 4-TB SAS drives, 32 TB usable in two 4+2 RAID sets (1,200 hours at 50 Mbps) 12 8-TB SAS drives, 64 TB usable in two 4+2 RAID sets (2,400 hours at 50 Mbps)
Expansion HDD Storage	Spectrum MediaStore 7200
Network	Two 1-GbE ports for system management Two 10-GbE ports for file transfer Access to FTP and SMB services
Reference	Per Spectrum X SDI I/O card, PTP, or optional LTC dongle Support for multiple timing standards

POWER

Power Supplies	Dual, hot-swappable
Power Consumption	Maximum 900 W at 35C, Typical 425 W at 20C

PHYSICAL

Dimensions (W x H x D)	17.53 in x 3.44 in x 28.75 in 2RU 44.55 cm x 8.74 cm x 73.03 cm

ORDERING INFORMATION

Part Number	Description
MCP-2200D-2XC	MediaCenter 2200D with 12x storage drives, copper 10G NIC, and dual SAS connection to MSS-7200 expansion storage
MCP-2200D-2XO	MediaCenter 2200D with 12x storage drives, optical 10G NIC, and dual SAS connection to MSS-7200 expansion storage

SPARES KITS

Part Number	Description
MCP-2200D-HDD-C4H	12x 4-TB HDDs for MCP-2200D
MCP-2200D-HDD-C8H	12x 8-TB HDDs for MCP-2200D
SPR-HWR-SPX2-HDD-4TB	One spare 4-TB HDD for Gen 11 HPe chassis
SPR-HWR-SPX2-HDD-8TB	One spare 8-TB HDD for Gen 11 HPe chassis
MCP-2200D-SSD-19S	12x 1.9-TB SSDs for MCP-2200D
SPR-HWR-HPE-G11-1KW-PSU	Spare AC 1000W PSU for DL360/380/325 G11 HPe chassis
HWR-MCP-LTC-CONNECTOR	Required connector for use of SMPTE LTC timecode