

# Spectrum™ MediaCenter 2200D

MEDIA SERVER WITH INTEGRATED STORAGE



**Ideal for moderate (up to 20) channel-count applications, the Spectrum™ MediaCenter 2200D media server from MediaKind 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.

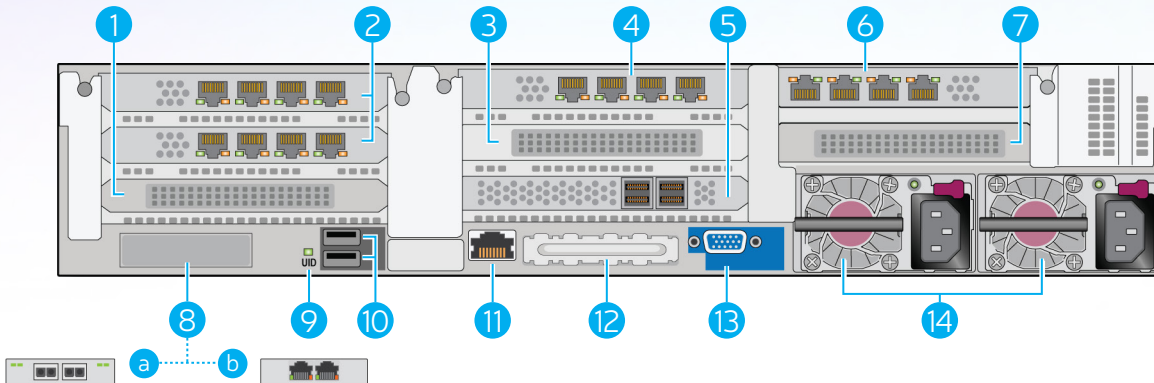
## HIGHLIGHTS

- 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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MediaKind



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| <p>1. 1Gbps connections to Spectrum I/O</p> <p>a. Ports 0-3, left to right<br/>b. Ports 4-7, left to right<br/>c. Ports 8-9, left to right<br/>(Ports 10-11 not in use, plugged)</p> <p>2. Filler panels</p> <p>3. 1Gbps for connections for system management (eth0, eth1, eth2, eth3 in software, left to right)</p> | <p>4. Filler panel</p> <p>5. NVMe redundant boot drives</p> <p>6. MegaRAID SAS controller</p> <p>7. UID and wink LED (the wink function blinks the UID LED once per second)</p> | <p>8. USB connectors</p> <p>9. Integrated lights-out (iLO) service management port</p> <p>10. Filler panel</p> <p>11. Serial-attached SCSI (SAS) connectors, Port A-B, left to right</p> | <p>12. 10 Gb Eth port options (use for file transfers):</p> <p>a. Two optical SFP ports<br/>b. Two copper RJ-45 ports</p> <p>13. VGA connector</p> <p>14. Redundant, hot-swappable power supplies (bay 2, bay 1, from left to right)</p> |
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## 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
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## 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

## Spare 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