



The Evertz® Media Clients are highly optimized digital Audio/Video I/O platforms that perform real-time, multi-channel HD or SD ingest and playout for broadcast and post-production facilities. Individual Media Clients can be provided with optional local RAID6 storage to allow a simple, standalone HD/SD ingest/playout platform as an inexpensive broadcast or post-production solution. The ability to exploit either networked or local storage allows the Evertz® Media Client to be used in multiple operational models that feature real-time ingest and playback from central storage, local storage or both.

Broadcast and post-production workflows are no longer operationally constrained by the architecture of the server system or an individual box.

The Evertz® Playout Client is a broadcast-quality, frame-accurate, digital baseband linear playout station that performs real-time SW-based decoding, and de-multiplexing of HD/SD-SDI content in either MPEG-2 or MPEG-4 formats. Currently supported HD codecs include XDCAM HD 4:2:2 and AVC-Intra HD 4:2:2.

A real-time, frame-accurate, linear playout channel is controlled via popular protocols over an IP network or individual RS-422 ports. For Playout Clients provided with local RAID6 storage, file transfers are accomplished using FTP or NFS.

► **Features & Benefits**

- Real-time, frame-accurate, broadcast-quality Audio/Video codecs
- Optional real-time linear Playout from local RAID6 storage
- IP-based non real-time File Transfers to local RAID6 storage
- IP-based or RS-422 control of individual Playout channels
- IPMI ready out-of-band management and KVM capability

► **Specifications**

Outputs:

- Number and type of video outputs per Playout channel
- 1 x Serial Digital Interface (SDI), as per SMPTE ST 292-1 for HD and SMPTE-259M for SD

Video Signal Format:

- 4:2:2 Y/C 8-bit sampling

Supported Raster Formats:

- 1920 x 1080i (29.97 Hz)
- 1920 x 1080i (25 Hz)
- 1280 x 720p (59.94 Hz)
- 1280 x 720p (50 Hz)
- 720 x 484i (29.97 Hz)
- 720 x 576i (25 Hz)

Supported Video Codec Profiles/Levels/Bit Rates:

HD	SD
<ul style="list-style-type: none"> • XDCAM HD422 50Mbps 	<ul style="list-style-type: none"> • IMX SD422 30Mbps, 40Mbps, 50Mbps

Supported Multiplexes:

- MXF: SMPTE-378M Operational Pattern 1A (Single Item, Single Package)

Audio:

- HD/SD-SDI embedded per SMPTE ST 272
- Support for up to eight (8) AES pairs per video output
- 48kHz sampling
- Support for 16-bit, 20-bit and 24-bit samples
- Support carriage of AES audio ancillary and user data

Supported Audio Formats:

- XDCAM HD422 Codec
 - Eight (8) PCM mono channels, 24-bit samples
- IMX SD422 Codec
 - Four (4) PCM mono channels, 24-bit samples
 - Eight (8) PCM mono channels, 16-bit samples

Genlock:

- Lock to SD video black

Vertical Blanking Interval:

- Uncompressed VANC data per video channel:
 - Pass-thru of all VBI lines
- Encoded VANC data per video channel:
 - Pass thru of Closed Caption (CC) per CEA-708 and CEA-608
 - Pass thru of VITC per SMPTE-12M
 - Pass thru of AFD per SMPTE-2016-1-2007

Real-time Playback Control:

- Protocols
 - VDCP
- Interfaces
 - RS-422, IP

Non Real-time File Transfers to Local RAID6 Storage

- (Optional):**
- Protocols
 - FTP, NFS
 - Interfaces
 - IP

Media Client Platform Specifications:

- Based on multi-core Linux Server architecture
- Includes four (4) 1Gb E ports
- Includes one (1) RS-422 port per Playout channel
- Includes one (1) IPMI port
- Includes dual-redundant, hot-swappable power supplies

Dimensions:

- 28"W x 17"H x 3.5L" (72cm x 44cm x 9cm)
- Gross Weight = 55 lbs (25 kg) w/local RAID6 storage
- 2U Rackmount

Operating Environment:

- Operating Temperature 10° to 30°C (50 to 85°F)
- Non-operating Temperature -40° to 70°C (-40 to 158°F)
- Operating Relative Humidity 8% to 90% (non-condensing)
- Non-operating Relative Humidity 5% to 95% (non-condensing)
- RoHS Compliant

Power Requirements:

- 100-240 VAC
- 50/60 Hz (auto-sensing)
- 375W (Max with no local storage)
- BTU/h 1,280 (Max with no local storage)
- 425W (Max with RAID6 local storage)
- BTU/h 1,450 (Max with RAID6 local storage)

► **Ordering Information**

EMS-MC-20204	Quad-channel HD/SD XDCAM/IMX Playout, No Local Storage
EMS-MC-20204-R8-7200-1000	Quad-channel HD/SD XDCAM/IMX Playout, -6TB RAID6 Local Storage
EMS-MC-20204-R8-7200-3000	Quad-channel HD/SD XDCAM/IMX Playout, -18TB RAID6 Local Storage