

OVRT-LIVE-MC-B

UHD/3G/HD/SD Media Ingest/Playout Client MC



Specifications

Platform:

Based on multi-core Linux 2RU server architecture

- 4x 1GbE ports
- 2x serial RS-422 ports
- 1x IPMI port
- Dual-redundant, hot-swappable power supplies

Inputs/Outputs:

Number of Interfaces:

Up to 16x configurable SDI input/output ports;
4x 10GbE HBRMT ports;
up to 4x 25GbE ports

Supported Formats:

SDI I/O: SMPTE ST 259M (SD),
SMPTE ST 292M (HD),
SMPTE ST 424M (3G)
HBRMT I/O: SMPTE ST 2110,
ST 2022-6

Video Standard: 2160p/59.94, 2160p/50,
1080p/59.94, 1080p/50,
1080i/59.94, 1080i/50,
720p/59.94, 720p/50,
625i, 525i

Video Sample Format:

4:2:2 Y/C 8-bit/10-bit,
4:2:0 Y/C 8-bit

Supported Multiplexes:

MXF OP-1A (single item,
single package), GXF, TS

Supported Video Codecs:

XDCAM HD50 4:2:2,
IMX50, IMX30, PRORES,
DNxHD, H.264, AVC

Video Processing: Up/down/cross conversion

Audio:

Number of Channels:

Up to 8x AES pairs at
48kHz sampling

Sample Format:

16, 20 and 24-bit samples

Supported Audio Codecs:

PCM, AC3, Dolby® E

Audio Processing:

Up-mix, down-mix, audio
shuffling, Dolby® D/DD+/E
encode/decode, IntelliGain
audio loudness control

Time Code:

- ATC/VITC pass-through
- ATC/VITC generation

ANC Processing:

- Supports VANC codecs: SMPTE ST 426M, ST 2038
- Pass-through of all VBI lines
- Subtitle/closed caption pass-through
- Subtitle/closed caption insertion/extraction
- CEA-608 to CEA-708 conversion
- OP42 to OP47 conversion
- Pass-through of VITC per SMPTE ST 12M
- ATC/VITC time code generation
- AFD stamping and pass-through per SMPTE ST 2016-1-2007
- V-Chip pass-through
- SCTE 104 pass-through

Features & Benefits expanded

Multiple I/O Support

- SDI (3G/HD/SD)
- IP compressed (H.264/MPEG-2)
- IP uncompressed (SMPTE ST 2110, (SMPTE ST 2022-6)

Multiple Frame Rate Support

- 2160p/59.94, 2160p/50
- 1080p/59.94, 1080p/50,
1080i/59.94, 1080i/50
- 720p/59.94, 720p/50
- 625i, 525i

Advanced Ancillary Data Processing

- 608/708 captions
- OP42/OP47 subtitles
- DVB subtitles
- AFD (SMPTE ST 2016)
- Timecode
- SCTE 104
- V-Chip/XDS

Advanced Video Processing

- Up/down/cross conversion
- AFD-based scaling
- Real-time, frame-accurate, broadcast-quality audio/video codecs
- Low-latency confidence playback while recording
- Low-latency jog/shuffle/play while recording
- Simultaneous low-res proxy creation
- Real-time record/playback to/from local RAID 6 storage and/or NAS

Wrapper Formats

- MXF
- GXF
- MPEG-4
- MOV
- TS

Codecs

- MPEG-2
- H.264
- AVCI
- IMX30, IMX50
- XDCAM50
- PRORES
- XAVC
- DNxHD
- PCM
- Dolby pass-through
- Low-res MPEG-4 or MPEG-DASH proxy

Contact your local sales representative for a detailed list of supported codec formats.

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Specifications (continued)

Automation Interface:

2x Serial RS-422: VDCP protocol,
M2100 protocol
4x IP: FTP protocol,
VDCP, M2100

Faster than Real-Time File Transfers:

- IP interface, FTP protocol

Environmental:

System Cooling: 6x 60x38mm heavy
duty PWM fans
Temperature: 10–35°C (50–95°F)
Non-Operating Temp.:
-40–70°C (-40–158°F)
Relative Humidity: 50–90% (non-condensing)

Physical:

Form Factor: 2RU
Dimensions: 16.96"W x 3.44"H x 27.95"D
(439mm x 89mm x 712mm)
Gross Weight: Approx. 54 lbs (24.5 kg)
Voltage: Auto-ranging
100–127V AC: 50–60Hz, 10A,
900W max. power
200–240V AC: 60–60Hz, 6A,
1100W max. power
Power Usage: 500W
In-Rush Current: 3.6A (120V/60),
2A (208V/60)
Storage Capacity: 6.6TB, RAID 6

Ordering Information

OVRT-LIVE-MC-B Dual Path Ingest/Playout/JS Media Client. SDI I/O Optional (*order OV-SDI if required*)

I/O Options:

OV-SDI Optional single SDI I/O card. Provides 8x SDI I/O.

OV-SDI-2 Optional Dual SDI I/O cards. Provides 16x SDI I/O.

OV-25G-IO Optional Dual 25G I/O cards for OVRT-LIVE-2U-B.

Note: Cannot order OV-SDI, OV-SDI-2 and OV-25G-IO on the same unit.

OV-COMPRESSED-IO-MP2-H264 Support for compressed stream encoding and decoding in OVRT-LIVE systems

Video Proc Options:

OV-4K Optional single channel 4K playout license (*note also requires OV-SDI-2 or OV-25G-IO option*)

OV-UDC Integrated Up/Down/Cross Conversion For Overture RT

OV-SIMU Support For Simultaneous SD and HD outputs

Audio Options:

OV-AUD-IG Intelligain Loudness Processing for OVRT-LIVE

OV-AUD-AAC AAC Encode/Decode

OV-AUD-DD Internal Dolby® E/AC3 decoding for OVRT-LIVE and OVRT-LIVE-2U

OV-AUD-DEE Dolby® E encoder for OVRT-LIVE-1U

OV-AUD-DMX 5.1 PCM Surround Sound to Stereo PCM Down-Mix

OV-AUD-UMX Stereo PCM to Surround Sound 5.1 Up-Mixing

Ancillary Data Options:

OV-CC Caption embedding from SCC file

OV-OP4247 Support for Insertion of OP42/OP47 Teletext Packets