



MXNet 10G TRANSCIVER

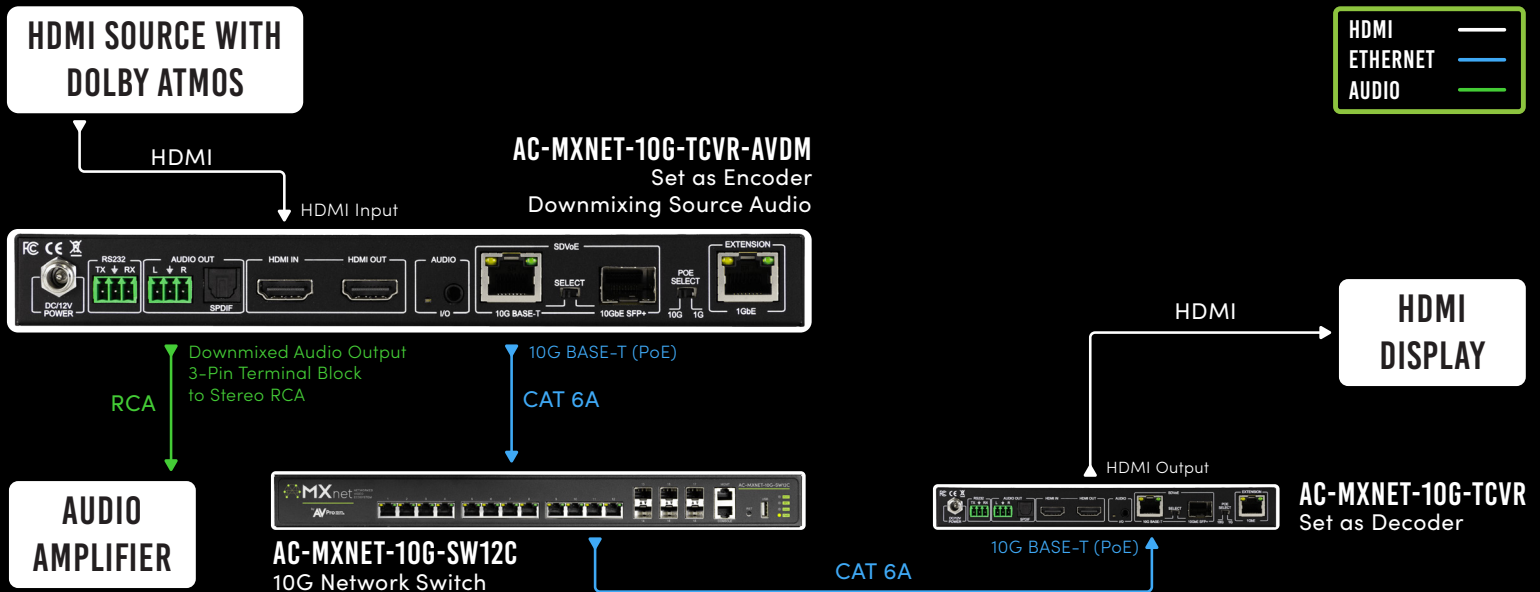
WITH 8CH AUDIO DOWNMIXING TO 2CH

(AC-MXNET-10G-TCVR-AVDM)

The AC-MXNET-10G-TCVR-AVDM simultaneously leverages the full technological architecture of its AC-MXNET-10G-TCVR stablemate, while augmenting platform versatility through the addition of high bitrate downmixing capabilities to an already powerful silicon résumé.

When the AC-MXNET-10G-TCVR-AVDM is selected for transmitter mode, preparing to encode and digitally packetize a multi-channel source for multicasting throughout an MXNet 10G ecosystem, a proprietary eight-channel bit stream audio downmixing decoder intercepts Dolby Atmos, IMAX Enhanced, or other high bitrate lossless audio codecs. This decoder extracts, converts, and configures a balanced analog stereo signal, making it available for output to third-party distribution systems via a balanced Phoenix connector. The digital audio codec component of the signal passes through for downline decoding by AC-MXNET-10G-TCVRs designated to function as system endpoints.

The AC-MXNET-10G-TCVR-AVDM may also be paired with an AC-MXNET-10G-TCVR for potent, stand-alone, point-to-point applications.



MXNet 10G by AVPro Edge

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PRODUCT SPECIFICATIONS

PORTS:

Ethernet	(1) 10G female RJ45 port for SDVoE transmissions, (1) 1G female RJ45 port for Ethernet extension or CBOX control. Both are PoE compatible.
SFP+	(1) 10G SFP+ Port used for SDVoE transmissions
HDMI	(1) HDMI input (1) HDMI output
Audio	(1) TOSLINK (1) x 3 Pin Terminal Block (1) 3.5mm female stereo jack. It can be audio input or audio output, depending on if TCVR is in Encoder or Decoder mode respectively.
IR	(1) 3.5mm IR OUT Port (1) 3.5mm IR-EYE Port (1) 3.5mm I-PASS Port
RS232	(1) x 3 Pin Terminal Block for MXNet System Control
USB	(1) USB Type-C for MXNet Service (1) USB Type-B full speed USB 2.0 480Mbps Data Rate (2) USB Type-A full speed USB 2.0 480Mbps Data Rate

DISTANCE:

Ethernet	100 Meters/330 Feet over CAT6a
SFP+ and Fiber	10G SFP+ AOC cable up to 3 meters, 10G SFP+ Multimode transceiver over Multimode fiber up to 550 meters, 10G SFP+ Single mode transceiver over Single mode fiber up to 20 Kilometers

ENVIRONMENTAL:

Operating Temperature	23 to 125°F (-5 to 51°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Operating Humidity	5-90% RH (No Condensation)
Thermal dissipation	Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr

POWER:

Power Consumption	Encoder ≈7W, Decoder ≈8W
PoE (Power over Ethernet)	IEEE 802.3af (15.4W)
Power Supply Unit	Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A

DIMENSIONS:

Mounting	Rack and Furniture mount support
Dimensions (Unit)	mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98
Dimension (Packaged)	mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13
Weight (Unit)	1.76 lbs./0.8 kg
Weight (Packaged)	2.25 lbs./1.02 kg
Regulatory	CE/FCC
Product Warranty	10 Years

*Specifications subject to change without notice. Mass & dimensions are approximate

FEATURE SET

- Unlimited sources to infinite endpoints with device totals limited only by the number of available switch ports
- Zero compression, zero frame latency, zero image artifacts up to 4K/30fps 4:4:4 8-bit
- 4K/60fps content uses an extremely light, 1.3:1 compression process which restores original data at endpoints for images identical to uncompressed content
- Genlock mode reduces latency to 0.1ms (or 1/400th of a frame) equal to high performance physical matrix switchers for mission-critical switching times
- MultiView for up to 32 images is standard and available for display on any monitor, TV or projector
- Video wall ready with sizing and bezel administration
- Non-genlocked fast switching of between one to two frames (approximately 17-34 milliseconds)
- Audio Breakaway and Independent signal routing for total signal flexibility
- Bidirectional Control for: IR; RS-232; Hi-Speed USB 2.0; Ethernet 1Gbs
- USB-B Host connection and KVM Control
- Third-party control and MXNet-10G Mentor WEB GUI via AC-MXNET-10G-CBOX

AC-MXNET-10G-TCVR-AVDM Exclusive Features

- A downmixed, two-channel balanced analog stereo signal may be extracted from eight-channel high bitrate digital audio codecs
- Dolby Atmos, DTS:X or any multi-channel audio track may be downmixed for intelligible audition for house-wide distributed audio applications
- Extracted balanced analog stereo audio signals are output from the Phoenix connector on the chassis rear. Shielded / screened wire may be terminated with connector types required for interfacing with third-party, distributed audio systems
- Digital codecs pass-through unaltered, available at the HDMI Loop-out port, and to downstream decoders via encoded multicast