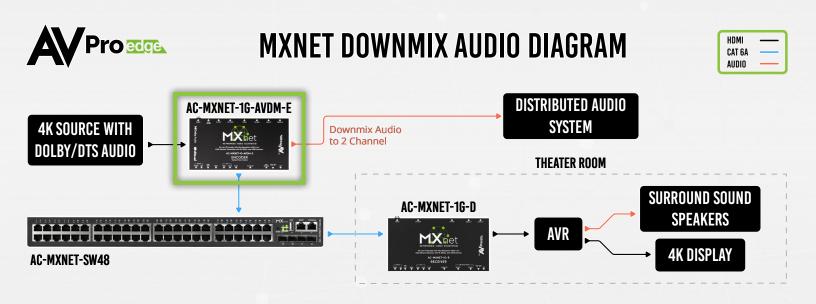


The AC-MXNET-1G-AVDM-E Encoder is the audio processing and downmixing cousin to our standard-issue AC-MXNET-1G-E Encoder. As with our standard Encoder, this is where the signal starts. However, the AC-MXNET-1G-AVDM-E Encoder was specifically designed to integrate with multi-zone stereo/mono audio mixing systems. The AC-MXNET-1G-AVDM-E Encoder employs a specialized audio processor chipset that can accept and decode Dolby Audio, DTS Audio®, and other lossless audio formats and output those signals as stereo through the provided balanced stereo terminal block on the unit.

The AC-MXNET-1G-AVDM-E will encode a 4K video signal – along with audio, control, and power. These signals are passed to single or multiple Decoder endpoints via multicast routing through an MXNet or multicast compatible L3 managed network switch. And, it does all this with next to zero latency. MXNet Encoders encode audio/video/control signals into IP packets using an optimized JPEG2000 codec at a flexible data rate (200Mbps for 1080p content, 300Mbps for 4K30 content, 850Mbps at peak). The AC-MXNET-1G-AVDM-E Encoder also supports stand-alone point-to-point applications when connected directly to an AC-MXNET-1G-D Decoder.

The AC-MXNET-IG-AVDM-E Encoder is only one part of the MXNet Ecosystem that includes Encoders, Network Switches, Control Processors, and other various components designed to facilitate the building of a custom A/V distribution system. MXNet's Ecosystem includes formatting such as resolution scaling, full EDID management, multifaceted video walls, and includes the MXNet Mentor setup and control tool – making installations easy on the integrator, while also presenting a major WOW factor for your client.



PRODUCT SPECIFICATIONS

Encoding:

Video Codec Proprietary Codec based on M-JPEG

Audio Codec Proprietary Codec Latency 16ms@60Hz

TCP, UDP, IP, IGMP-V2 Streaming Protocols Copy Protection HDCP 2.2 and earlier

Video Input/Ingestion

DVI 1.0(ingested, outputs as HDMI), HDMI 2.0b Signal Type Video Resolution 720p@50/60Hz; 1080p@24, 50 & 60Hz; 4K@30HZ 4:4:4, 4:2:2, 4:2:0 (Compresses to RGB output) Chroma Subsampling

1080p (8-, 10-, 12-, 16-bit), 4K (8-,10-, 12-bit) (Compresses to 8-bit Bit Depth per Color

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Visually Lossless 1080p@60Hz SDR RGB (8-bit), 4K@30Hz SDR RGB (8-bit)

Audio

PCM 2, 5.1, 7.1 Channel, Dolby Digital 5.1 Channel, Dolby Digital Plus, Audio Format (end to end)

DTS 5.1 Channel, DTS-ES, DTS-HD High Resolution

Audio Format (HDMI Loopout) Same as End to End, with the addition of Dolby MAT 8Ch

Stereo Analog Audio (3.5 mm jack) **Embedded Audio**

De-Embedded Audio Balanced Stereo Analog Audio (5pin phoenix) (Downmixed audio)

Communication/Control of External Devices

USB HID-Compliant

Serial/RS-232 Bidirectional Device Control / Monitoring IR Bidirectional Device Control / Extension

HDMI HDCP 2.2, EDID Management (Encoder), CEC (Decoder)

Ports

IR

(1) × female RI45 Ethernet (1) × SFP Slot **SFP**

(2) × HDMI Type A 19-pin, female, one HDMI input, one HDMI loop **HDMI**

(1) × 5 Pin Terminal Block, Balanced L/R Audio out Audio

(1) × 3.5 mm mini stereo jack, Audio in (1) x 3.5 mm mini-stereo jack (IR-PASS) (1) x 3.5 mm mini-stereo jack (IR-EYE) (1) x 3.5 mm mini-stereo jack (IR-OUT)

RS232 (1) × 3-pin Terminal Block

(1) × USB 2.0 Type-B for USB keyboard/mouse extension USB

(1) × USB Micro for MXNET service

Distance

Ethernet 100 Meters/ 330 Feet over CAT5e and above

> 1000BASE-SX SFP Transceiver Module (MMF, 850nm, 550m, LC, DOM)

1000BASE-LX/LH SFP 1310nm 10km Transceiver Module

Environmental

SFP and Fiber

23 to 125°F (-5 to 51°C) Operating Temperature Storage Temperature -4 to 140°F (-20 to 60°C) Operating Humidity 5-90% RH (No Condensation)

Cooling Fanless Cooling

Acoustic Noise Level 0dB

Power

Max Power Consumption

PoE (Power over Ethernet) IEEE 802.3af (15.4W)

Input: AC 120-240V-50/60Hz 0.8A Power Supply Unit

Output: DC 12V 2A

Dimensions

Product Wartanty

Mounting Rack and Furniture mount support

10 Years

Dimensions (Unit Only Width/ mm: 199.14 X 103.12 X 13.47

Depth/Height) inch: 784 X 4 06 X 0 53

mm: 309.88 X 180.09 x 54.10 Dimensions (Packaged Width/ inch: 12.2 X 7.09 X 2.13 Depth/Height)

Weight (Unit) 1.25 lbs/0.55 kg Weight (Packaged) 1.65 lbs/0.74 ka CE/FCC/UL Regulatory

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



FEATURE SET

- 1G Maximum Data Rate
- Stereo downmixing of multichannel audio formats
- Bandwidth management via MXNet Mentor
- cable (CAT 5e or better)
- SPF Fiber Connection for Long
- Built-In "Data Window" OLED
- **USB/KVM** Host support
- one or many Decoders
- RS-232 over IP serial passthrough support

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