MXnet
NETWORKED VIDEO ECOSYSTEM

MXNet 1G DOWNMIXING ENCODER
(AC-MXNET-1G-AVDM-E)

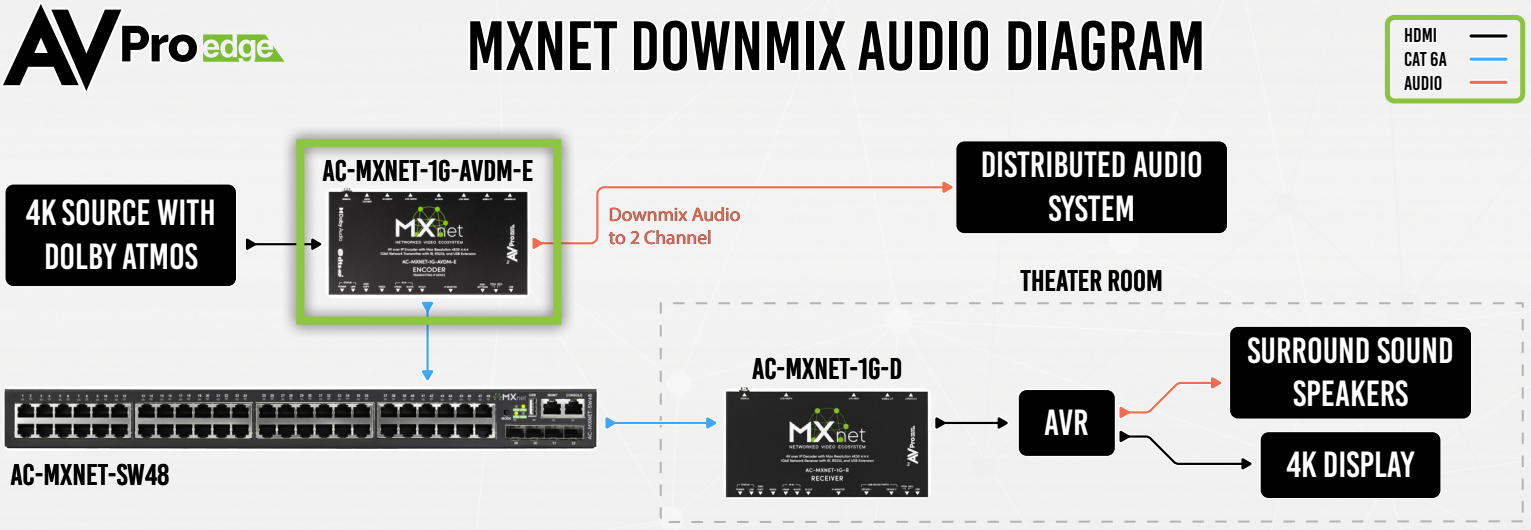
The AC-MXNET-1G-AVDM-E Encoder is the audio processing and downmixing cousin to our standard-issue AC-MXNET-1G-E Encoder. As with our standard Encoder, this is where the signal starts. However, the AC-MXNET-1G-AVDM-E Encoder was specifically designed to integrate with multi-zone stereo/mono audio mixing systems. The AC-MXNET-1G-AVDM-E Encoder employs a specialized audio processor chipset that can accept and decode Dolby Digital+, DTS-HD, 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 full 4K 4:4:4 60Hz HDMI video signal – along with audio, control, power, and HDR metadata signals. 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-1G-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, HDR and Dolby Vision metadata, 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.

AVPro edge

MXNET DOWNMIX AUDIO DIAGRAM



MXNet by AVPro Edge
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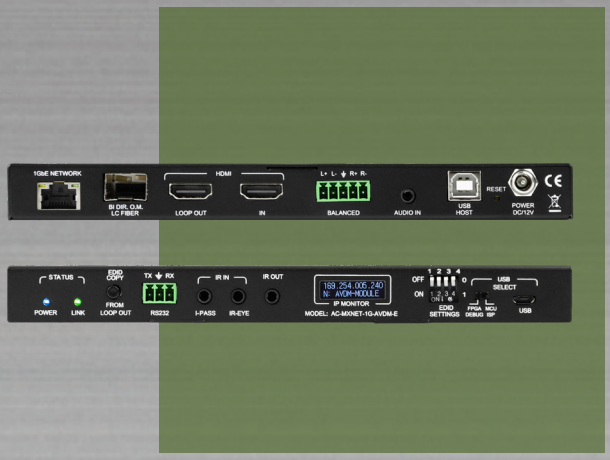
PRODUCT SPECIFICATIONS

VIDEO:	
Signal Type	DVI 1.0, HDMI 2.0b
Video Resolution	4K@60Hz 4:4:4*, 4K@30Hz 4:4:4, 4K@60Hz 4:2:0
HDR Format	HDR 10, HLG, DV
Chroma Subsampling	444, 422, 420
Bit Depth per Color	1080P (16Bit), 4k (10, 12 Bit)
AUDIO:	
Audio Format	PCM 2, 5.1, 7.1 Channel, Dolby Digital 5.1 Channel, Dolby Digital Plus, DTS 5.1 Channel, DTS-ES, DTS-HD High Resolution
Embedded Audio	Stereo Analog Audio
De-Embedded Audio	Balanced Analog Audio
PORTS:	
Ethernet	(1) × female RJ-45, PoE
SFP	(1) × SFP Slot
HDMI	(2) × HDMI Type A 19-pin, female, one HDMI input, one HDMI loop out
Audio	(1) × 5 Pin Terminal Block, Balanced L/R Audio out (1) × 3.5 mm mini stereo jack, Audio in
IR	(3) × 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out
RS232	(1) × 5 Pin Terminal Block
USB	(1) × USB 2.0 Type-B for USB extension and KVM, (1) × USB Micro Type-B for MXNET service
DISTANCE:	
Ethernet	100 Meters/ 330 Feet over CAT5e and above
SFP and Fiber	1000BASE-SX SFP Transceiver Module (MMF, 850nm, 550m, LC, DOM)
	1000BASE-LX/LH SFP 1310nm 10km Transceiver Module
ENVIRONMENTAL:	
Operating Temprature	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)
POWER:	
Max Power Consumption	9.5W
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 Only Width/Depth/Height)	mm: 200 X 104x 20 inch: 7.87 X 4.09 X 0.79
Dimensions (Packaged Width/Depth/Height)	mm: 310 X 180x 54 inch: 12.2 X 7.09 X 2.13
Weight (Unit)	1.2 LBS/0.55 KG
Weight (Packaged)	1.7 LBS/0.77 KG
Regulatory	CE/FCC/UL
Product Warranty	10 Years
Specifications subject to change without notice. Mass & dimensions are approximate *4K60 4:4:4/4k60 4:2:2 Uses ICT Compression	



FEATURE SET

- 1G Maximum Data Rate
- Object and lossless audio format stereo downmixing
- Bandwidth management via MXNet Mentor
- Uses any standard category cable (CAT 5e or better)
- SPF Fiber Connection for Long Runs
- Built-In "Data Window" OLED display
- USB/KVM Host support
- Full Exterior Light Control (for discreet Installs)
- RS-232 and IR Direct Routing to one or many Decoders
- RS-232 over IP serial passthrough support

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