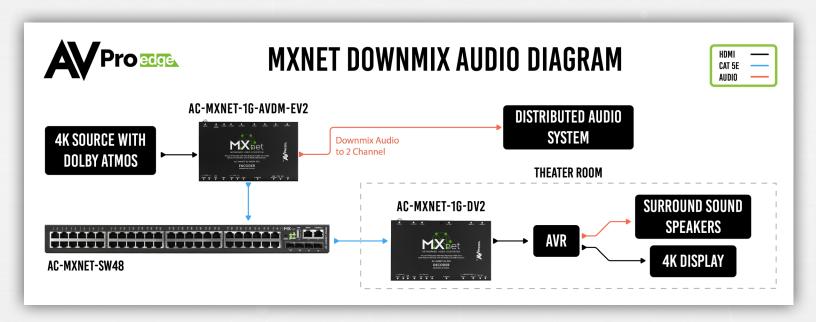


Tracing the footprints of AVPro Edge's AC-MXNET-1G-EV2 and continuing down the evolutionary path of the MXNet Platform, the AC-MXNET-1G-AVDM-EV2 draws upon an onboard proprietary audio decoder module designed to extract two-channel, balanced analog audio from high bitrate, multi-channel audio codecs including Dolby Atmos and DTS:X for IMAX Enhanced to integrate with multi-zone stereo distribution systems. Downmixed signals are extracted and output in analog stereo via a balanced Phoenix-type terminal on the encoder chassis.

The AC-MXNET-1G-AVDM-EV2 functions otherwise as an Evolution II Encoding / Transmitting device, incorporating a newly designed AVPro Edge application-specific integrated circuit (ASIC) that introduces an improved software-based video encoding / decoding engine into the IC for enhanced video processing. Refinements to the IC include native support for 4K/60fps 4:4:4 signals (RGB and YCbCr @10- and 12-bit). All MXNet first-generation encoder features are retained for use with the AC-MXNET-1G-AVDM-EV2.

As a member of the AVPro Edge family of AV over IP products, an AC-MXNET-1G-EV2 is the gateway where a signal enters the MXNet Ecosystem, connected with category cable (AVPro Edge strongly encourages CAT-6a infrastructure for all MXNet system deployments however for MXNet 1G, Cat-5e will comfortably transport MXNet 1G data signals) or fiber optic cabling, to an MXNet switch or any compatible multicast-capable managed L3 network switch.



PRODUCT SPECIFICATIONS

LKODOCI 2	PECIFICALIONS	
Video Input / Ingestion:		
Signal Type	DVI 1.0, HDMI 2.0b	
Video Resolution	720P@50/60Hz; 1080P@50/60Hz; 4K@50/60HZ 4:4:4*; 4K@30HZ 4:4:4; 4K@60HZ 4:2:0; 4K@24HZ 4:2:0/4:2:2 [Ultrawide Support]	
HDR Format	HDR 10, HLG, Dolby Vision @30Hz	
CHroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Bit Depth per Color	1080P (16Bit), 4k (10, 12 Bit)	
Visually Lossless	4096x2160P@60Hz (8 BIT) 4:4:4 or RGB; 3840x2160P@60HZ (12BIT) 4:2:2 DOLBY VISION; 3840x 2160P@60HZ (10BIT) 4:2:2 HDR10/HLG; 1920x1080P@60HZ (12BIT)	
Audio:		
Audio Format (HDMI & HDMI Loopout)	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, DTS–HD Master Audio, Dolby Atmos	
Embedded Audio	Stereo Analog Audio	
De-Embedded Audio	Always Downmixed 2CH	
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 & 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 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)
Power:	
Max Power Consumption	6.5W (AVDM 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 120 x 20 inch: 7.87 X 4.74 X 0.79
Dimensions (Packaged Width/Depth/Height)	mm: 310 X 180 x 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



- 8CH Audio Downmixing to 2CH
 - HDMI 2.0
 - 18Gbps Bandwidth Support
- HDCP 2.3 (and all earlier versions supported)
- Evolution II ASIC with improved encoding engine
- With "lossy" signals, JPEG 2000 optimizes compression efficiency
- Proprietary MXNet Mentor interface for bandwidth management, real-time status feedback, live diagnostics plus EDID copy and configuration

approximate. *4K60 4:4:4/4k60 4:2:2 Uses ICT Compression

- Encodes native 4K/60fps 4:4:4 RGB or YCbCr with dynamic metadata support
 - Downstream decoders now support ARC and eArc
 - Genlock frame-syncing ensures video walls are free from image-tearing
 - Near-zero latency, visually imperceptible
 - Configure control signal routing for RS-232, IR or USB via MXNet Mentor
 - USB/KVM support with USB 2.0 Type-B female Host connection
- Improved USB 2.0 video processing for resolutions up to 1920x1080p @ 30Hz
- Built-in OLED data window provides localized device information at a glance
 - Backed by AVPro Edge's 10-year, no-hassle warranty





