



# MXNet 1G WALL PLATE ENCODER (AC-MXNET-1G-EWP)

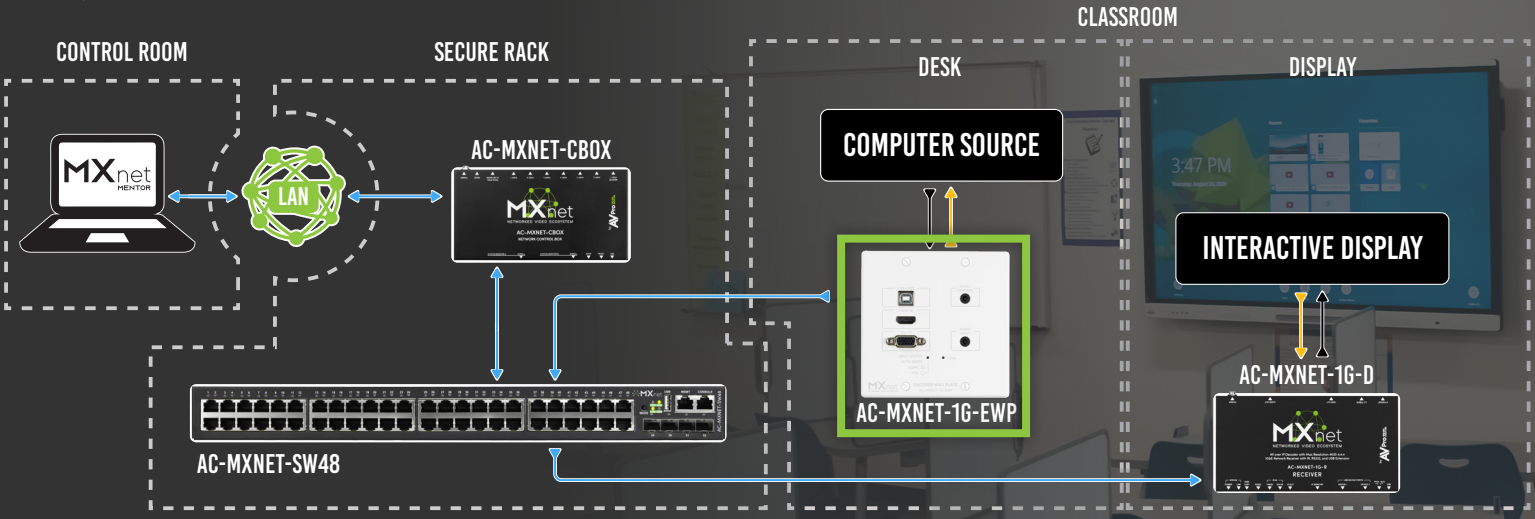
Clean, sleek, and stable. That is what you get when you install this AV over IP encoder device that fits into any standard dual-gang mud ring. Connect this MXNet wall plate to any HDMI source and it will encode the audio/video signal into a multicast data format that can be routed to any Decoder endpoint within the project/installation. This device connects directly via category cable (CAT 5e or better) to any MXNet switch. The AC-MXNET-1G-EWP is a part of the MXNet family of AV-over-IP products from AVPro Edge.

The AC-MXNET-1G-EWP will encode a 4K HDMI 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. 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-EWP 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.



## MXNET EDUCATION APPLICATION



MXNet by AVPro Edge

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# PRODUCT SPECIFICATIONS

<b>Encoding</b>	
Video Codec	Proprietary Codec based on M-JPEG
Audio Codec	Proprietary Codec
Latency	16ms@60Hz
Streaming Protocols	TCP, UDP, IP, IGMP-V2
Copy Protection	HDCP 2.2 and earlier
<b>Video Input/Ingestion</b>	
Signal Type	DVI 1.0 (ingested, outputs as HDMI), HDMI 2.0b
Video Resolution	720p@50/60Hz; 1080p@24, 50 & 60Hz; 4K@30Hz
Chroma Subsampling	4:4:4, 4:2:2 (Compresses to RGB Output) , RGB
Bit Depth per Color	1080p (8-, 10-bit), 4K (8-, 10-bit) (Compresses to 8-bit Output)
Visually Lossless	1080p@60Hz SDR RGB (8-bit), 4K@30Hz SDR RGB (8-bit)
<b>Audio</b>	
Audio Format (end to end)	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 (3.5 mm jack, VGA Audio Input)
<b>Communication/Control of External Devices</b>	
USB	HID-Compliant
Serial/RS-232	Bi-directional Device Control / Monitoring
HDMI	HDCP 2.2, EDID Management (Encoder), CEC (Decoder)
<b>Ports</b>	
Ethernet	(1) x female RJ45, PoE
HDMI	(1) x HDMI Type A 19-pin, female, one HDMI input
Audio	(1) x 3.5 mm mini stereo jack, VGA Audio Input
RS232	(1) x 3.5 mm female jack
USB	(1) x USB 2.0 Type-B for USB Keyboard/Mouse Extension (1) x USB Micro for MXNet service
<b>Distance</b>	
Ethernet	100 Meters/330 Feet over CAT5e and above
<b>Environmental</b>	
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)
Cooling	Fanless Cooling
Acoustic Noise Level	0dB
<b>Power</b>	
Max Power Consumption	5.5W
PoE (Power over Ethernet)	IEEE 802.3af (15.4W)
<b>Dimensions</b>	
Mounting	Rack and furniture mount support
Dimensions (Unit Only Width/Depth/Height)	mm: 82.55 x 38.1 x 104.902 inch: 3.25 x 1.5 x 4.13
Dimensions (Unit + Faceplate Width/Depth/Height)	mm: 115.824 x 41.402 x 115.824 inch: 4.56 x 1.63 x 4.56"
Dimensions (Packaged Width/Depth/Height)	mm: 155.70 x 133.35 x 85.85 inch: 6.13 x 5.25 x 3.38
Weight (Unit + Faceplate)	0.94 lbs /0.43 kg
Weight (Packaged)	1.18 lbs/0.54 kg
Regulatory	CE/FCC/UL
Product Warranty	10 Years
Specifications subject to change without notice. Mass & dimensions are approximate	



**FEATURE SET**  
 1G MAXIMUM DATA RATE  
 BANDWIDTH MANAGEMENT VIA  
 MXNET MENTOR  
 USES ANY STANDARD  
 CATEGORY CABLE (CAT 5E OR  
 BETTER)  
 WALL PLATE FORMAT THAT FITS  
 IN STANDARD DUAL-GANG MUD  
 RINGS  
 USB/KVM HOST SUPPORT  
 FULL EXTERIOR LIGHT CONTROL  
 (FOR DISCREET INSTALLS)