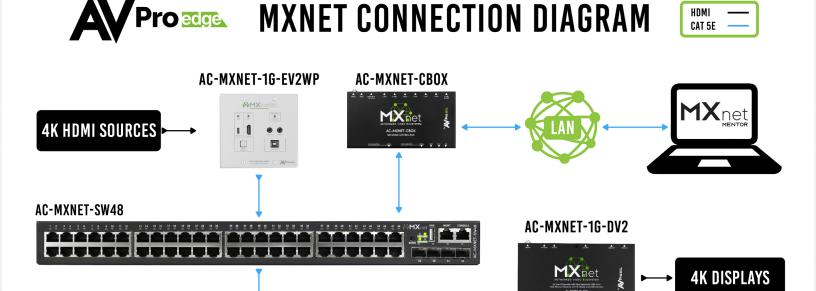


The AC-MXNET-1G-EV2WP is an MXnet Evolution II encoder with selectable switching between the HDMI and USB-C inputs, packaged in an elegant, low-profile wall plate. As a wall-plate version of the AC-MXnet-1G EV2, system encoding may now be placed where it is most convenient. A/V signals are converted into precision multicast data packets, routed to any or all system decoders via category cable (CAT-6A is strongly recommended) tethered to an MXnet PoE network switch, which also powers the unit.

AC-MXNET-1G-EV2WP multicast encodes HDMI content up to 4K/60 fps, including HDR and Dolby Vision, with 8-, 10-, and 12-bit color depth. It is capable of full chroma subsampling, from RGB to 4:4:4, while supporting all 3D immersive audio formats. Proprietary Video and Audio Codecs based on modified M-JEG algorithms manage data in a parsed, flexible manner that minimizes bitrate errors, allocates adequate signal headroom, and optimizes compression for artifact-free, visually lossless image fidelity.

Applications best suited to the AC-MXNET-1G-EV2WP might include installation into a wall adjacent to a desk, creatively flushed into the desktop, or a lectern for religious or performance hall projects. For educational environments, a substitute educator's portable laptop in a locked office and not permanently installed in a system rack may be controlled from the classroom via an AC-MXNET-1G-EV2WP. In governmental or judicial applications, a clean, clutter-free installation is made possible, as is convenient, fool-proof input selection, from the plate-embedded push button switch.



PRODUCT SPECIFICATIONS

PRODUCT SPECT	FICATIONS
Encoding	
Video Codec	Proprietary Codec based on M-JPEG
Audio Codec	Proprietary Codec
Latency	16ms@60Hz
Ultra Low Latency Mode	2-4ms@60Hz
Streaming Protocols	TCP, UDP, IP, IGMP-V2
Copy Protection	HDCP 2.2 and earlier
Video Input/Ingestion	
Signal Type	DVI 1.0 (ingested, outputs as HDMI), HDMI 2.0I DisplayPort 1.2 via USB-C alt-mode
Video Resolution	720p@50/60Hz; 1080p@24, 50 & 60Hz; 4K@50/60Hz 4:4:4*; 4K@30Hz 4:4:4; 4K@60H 4:2:0;4:2:2 4K@24Hz 4:2:0/4:2:2 [Ultrawide Support]
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0, RGB RGB
Bit Depth per Color	1080p 8-,10-,12-bit, 4K 8-,10-,12-bit
Visually Lossless	4096x2160p@60Hz (8-bit) 4:4:4 or RGB; 3840x2160p@60Hz (12-bit) 4:2:2 Dolby Vision; 3840x2160p@60Hz (10-bit) 4:2:2 HDR10/HLG; 1920x1080p@60HZ (12-bit)
Audio	
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–EDTS–HD High Resolution, DTS–HD Master Aud Dolby Atmos
Embedded Audio	Stereo Analog Audio (3.5 mm jack)
Communication/Control of External D	evices
USB	HID-Compliant; USB 2.0 (bandwidth limited to 120Mbps)
HDMI	HDCP 2.2, EDID Management, CEC
Ports	
Ethernet	(1) × female RJ45, PoE
HDMI	(1) × HDMI Type A 19-pin, female, one HDMI input
Audio	(1) × 3.5 mm mini stereo jack, VGA Audio Input
RS232	(1) × 3.5 mm female jack
USB	(1) × USB 2.0 Type–B for data (1) × USB–C for MXnet service (1) × USB–C for video input and data
Distance	(i) A GOD G (ii) Video iii) gar ana a da
Ethernet	100 Meters/330 Feet over CAT5e and above
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	o obtained condensation)
Max Power Consumption	6.7W
PoE (Power over Ethernet)	IEEE 802.3af (15.4W)
Dimensions	1555 002.501 (15.4W)
1 1 1 1	Wall and furniture mount are next
Mounting Dimensions (Unit Only Width/Depth/ Height)	Wall and furniture mount support mm: 92.08 x 53.98 x 109.54 inch: 3.625 x 2.125 x 4.3125
Dimensions (Unit + Faceplate Width/ Depth/Height)	mm: 115.89 x 57.15 x 115.89 inch: 4.5625 x 2.25 x 4.5625
Dimensions (Packaged Width/Depth/ Height)	mm: 153.99 x 130.18 x 85.73 inch: 6.0625 x 5.125 x 3.375
Weight (Unit + Faceplate)	1.03 lbs / 0.47 kg
Weight (Packaged)	1.23 lbs / 0.56 kg

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

KEY BENEFITS

- Native 4K/60 fps Support Supports video bandwidth as great as 4K/60 fps, 4:4:4, RGB/YCbCr, 8–,10– and 12–bit, natively or with dynamic metadata. A proprietary, advanced M–JPEG algorithm applies limited, ultra–light compression to signals exceeding the lossless threshold. When decoded, the result is an artifact–free image, including Dolby Vision and HDR10+ content.
- High Bitrate Multi-channel Audio Support 3D immersive audio, including Dolby Atmos and DTS:X for IMAX Enhanced, is supported through the HDMI input.
- Improved Preview Thumbnail Though remotely located from a rack hosting the CBOX and MXnet Mentor, the AC-MXNET-1G-EV2WP will generate a 1024 x 576-pixel thumbnail for HDMI video sources.
- Single Cable Solution The USB-C input supports both USB 2.0 data and DisplayPort alt-mode video. This allows a user to connect a compatible USB-C equipped computer to the encoder and simultaneously share video content and connect to any USB peripherals in a system such as a touchscreen or camera through one connection.
- Device Light Control Status LEDs on the AC-MXNET-1G-EV2WP may be extinguished by MXnet Mentor control, preventing unwanted distraction in close proximity installations or when visibility is not desired. When troubleshooting, the lights may be flashed like chassis-based MXnet ecosystem devices for rapid detection.
- RS-232 Control Routing Control signal routes, mapped in MXnet Mentor software, direct commands to downstream EVO II decoders through the AC-MXNET-1G-EV2WP.

