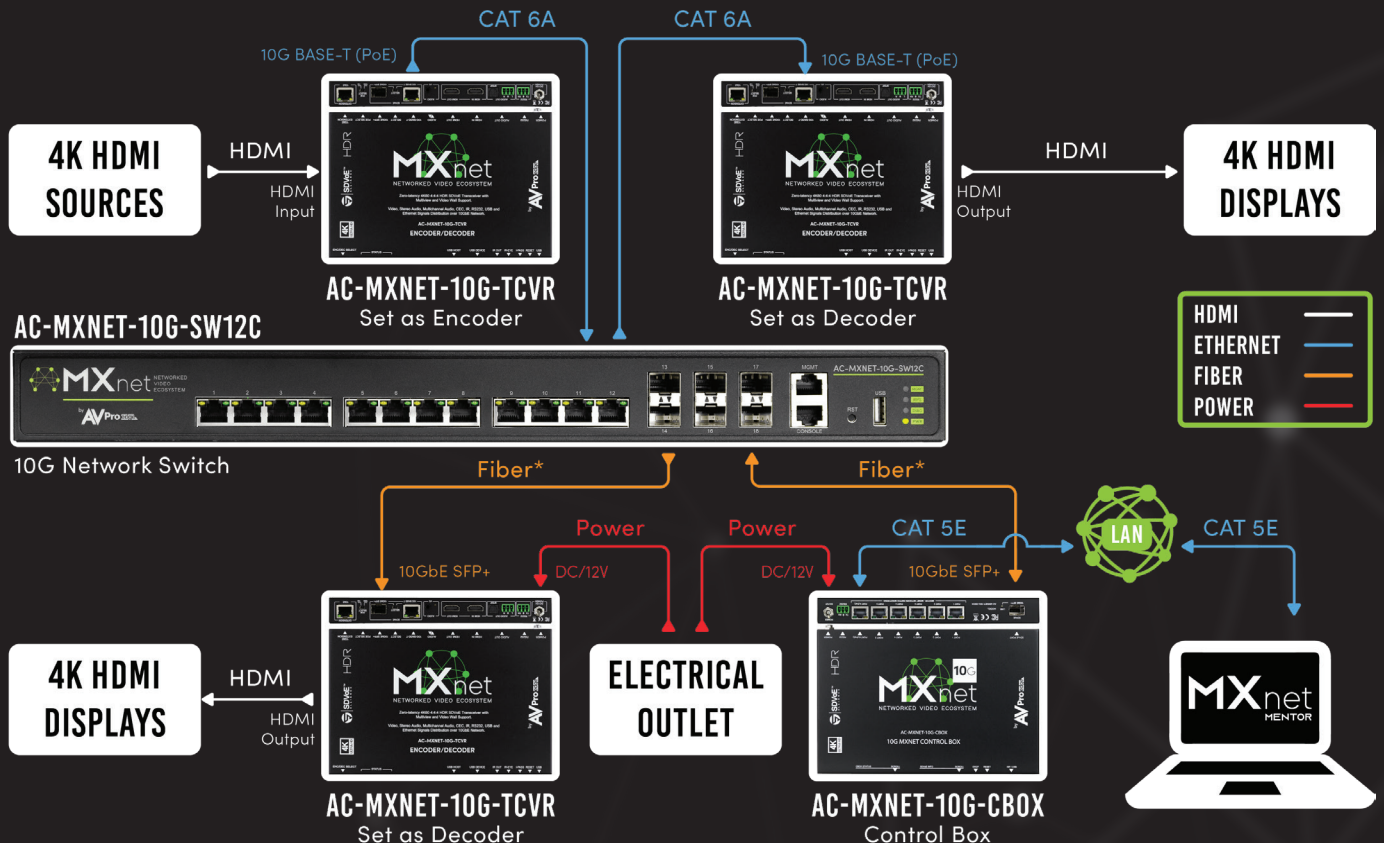




MXNet 10G CONTROL BOX (AC-MXNET-10G-CBOX)

The AC-MXNET-10G-CBOX serves as the central control unit for the SDVoE AV over IP ecosystem. Connected to the MXNet 10G network system switch (or a third party multicast capable switch), the AC-MXNET-10G-CBOX maintains communication with all MXNet 10G transceivers to manage multicast data distribution, audio/video switching - including matrix routing presets, and command destination mapping for RS-232, IR or USB extension control signals.

Pre-installed onboard every AC-MXNET-10G-CBOX is AVPro Edge's state-of-the-art proprietary MXNet Mentor software platform, featuring a suite of intuitive ecosystem utilities designed for efficient system configuration, resource management, device customization, and operational status diagnostics. Also centralized for storage and hosting by the AC-MXNET-10G-CBOX are system logic and the API utilized by the MXNet Mentor web interface plus third-party control systems.



*Single or Multimode Fiber with 10G SFP+ Modules or 10G SFP+ AOC Cable

MXNet 10G by AVPro Edge

www.avproedge.com | info@avproedge.com | 877-886-5112 OR +1 605 274 6055

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	(6) 10/100/1000 base-T, half/full duplex (auto detect), RJ-45 female ports (port 6 is a POE port) for MXNet System Control and third-party control
SFP+	(1) 10G SFP+ port used for MXNet SDVoE streams and input preview
RS232	(1) x 3 Pin Terminal Block for MXNet System Control
USB	(1) USB Type-C for MXNet Service

DISTANCE:

Ethernet	100 Meters/330 Feet over CAT5e
SFP+ and Fiber	10G SFP+ DAC cable up to 1 meters, 10G SFP+ AOC cable up to 3 meters, 10G SFP+ Multimode transceiver over Multimode fiber up to 550 meters 10G SFP+ Single mode transceiver over Single mode fiber up to 20 Kilometers

OLED DISPLAY:

OLED Displays	(2) one for CBOx status and one for SDVoE information
OLED Display Size	23mm x 6mm
OLED Display Resolution	128 x 32 Pixels

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:

Power Consumption	8.1W
PoE (Power over Ethernet)	IEEE 802.3af (15.4W)
Power Supply Unit	"Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A"
Thermal dissipation	27.7 BTU/hr

DIMENSIONS:

Mounting	Rack and Furniture mount support
Dimensions (Unit)	"mm: 215 x 140 x 25 inch: 8.46 x 5.51 x 0.98"
Dimension (Packaged)	"mm: 310 x 180 x 54 inch: 12.2 x 7.09 x 2.13"
Weight (Unit)	1.76 lbs./0.8 kg
Weight (Packaged)	2.18 lbs./0.99 kg
Regulatory	CE/FCC
Product Warranty	10 Years

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

KEY BENEFITS

- **Dual OLED Data Windows:** Window A displays MXNet LAN and system control network information while Window B displays MXNet AV network information for localized monitoring separate from MXNet Mentor.
- **Dual Power Capability:** The AC-MXNET-10G-CBOX may be connected to the MXNet network switch for standard PoE power or locally, via a DC 12V/1A locking ring power charger.
- **Time Savings:** Auto-setup configures the physical system in a digital space, finding MAC addresses for all encoders and decoders plus dynamically assigns IP addresses and multicast channels.
- **Easy Problem Solving:** MXNet Mentor becomes an extra pair of digital hands as on-the-fly diagnostic features with instantaneous feedback effectively troubleshoot system topology conflicts such as formatting, connectivity, routing, or other system issues rapidly and conclusively.
- **Free Your Creative Side:** MXNet Mentor joins your imagination to create video walls with easy sizing and bezel configuration or compose software-defined MultiView screens with Simple Grid, Hybrid Grid, Window Tiling, Picture-In-Picture (PIP) and Picture-And-Picture (PAP), adaptable to specific system requirements such as surveillance monitoring, video conferencing, or to merely keep tabs on active games in progress on a hectic Saturday of sporting events.
- **Control:** Power control interdependencies, using either encapsulated RS-232 over IP or CEC via HDMI, or IR, KVM and USB 2.0 control signals, are easily routed through the 10Gbe network from any input to any output, configured effortlessly using Mentor.

Uncompressed video, up to 4K/60fps plus companion or breakaway audio along with input source preview, may be routed by Mentor directly or via matrix presets through the AC-MXNET-CBOX-10G. Additionally, MXNet Mentor integrates network switch management, including VLAN, real-time bandwidth, and POE power status.

- **System Scalability:** The powerful duo of the AC-MXNET-10G-CBOX and MXNet Mentor enable deployment of a virtually unlimited number of encoders and decoders to create systems of unconstrained scale previously unimaginable, limited only by available switch ports.

From residential applications to sprawling corporate, educational, industrial, or medical campuses, AVPro Edge provides you and your clients a fully adaptable solution to meet any design challenge head-on.