



NETWORKED VIDEO ECOSYSTEM

MXNet 10G TRANSCEIVER

WITH ICRON TECHNOLOGIES, THE EXTREMEUSB® AND DANTE (AC-MXNET-10G-TCVR-PRO)



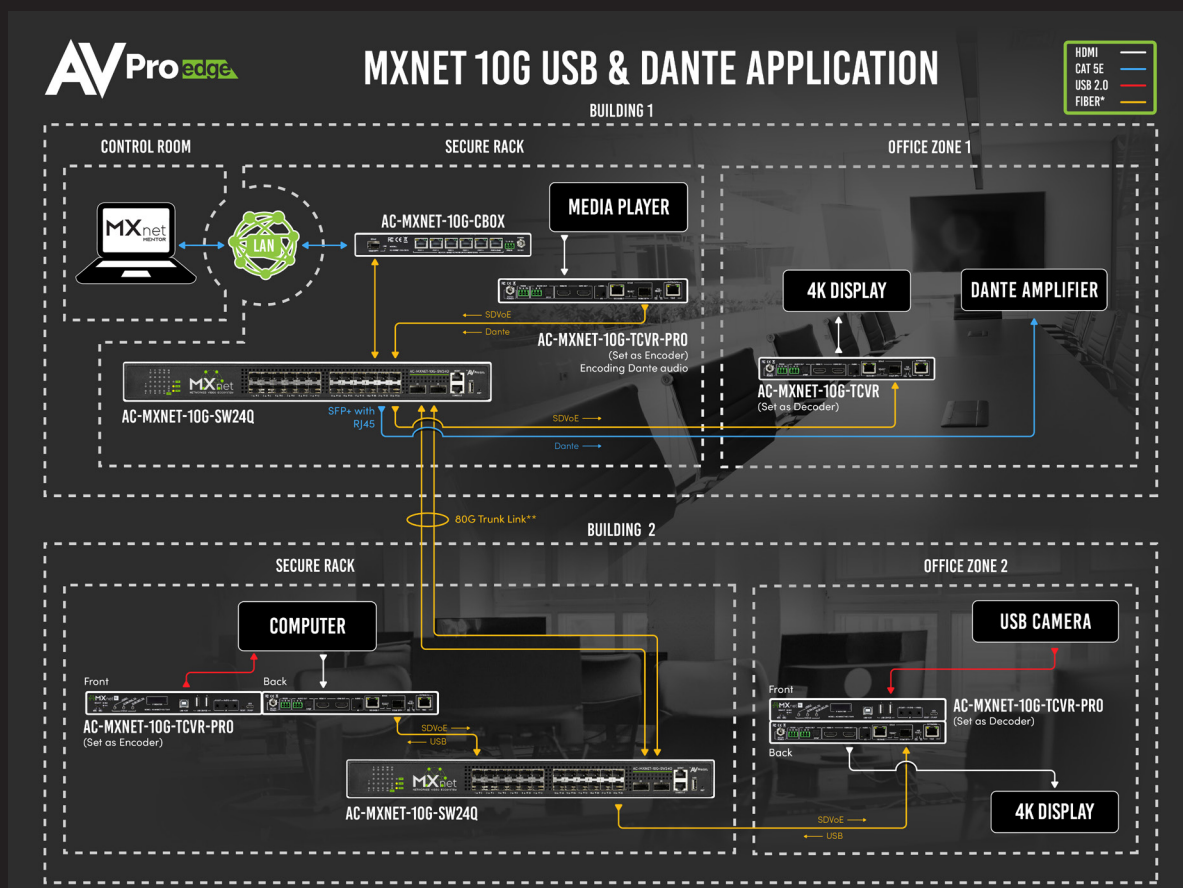
The AC-MXNET-10G-TCVR-PRO simultaneously leverages the full technological architecture of its AC-MXNET-10G-TCVR stablemate, and augments platform versatility with the addition of engineering sciences from USB extension leader Icron, plus Audinate's ubiquitous Dante to an already powerful silicon resumé.

Icron USB

Patented by Icron Technologies, the ExtremeUSB® suite of features enables extension of native USB connections beyond the traditional USB standard 5 meter limitation. Through precise control over strict USB specification timing requirements with physical transmission media, including both Category wire and fiber, ExtremeUSB manages turnaround time quotients in the USB protocol between the local point and all remote points.

Audinate Dante

Replacing antiquated traditional Pro A/V cabling protocols, which were often practiced as linking one device to another, with different devices and their associated applications requiring different cabling types, Audinate's Dante (Digital Audio Network Through Ethernet) platform packetizes audio in a similar fashion to MXNet-10G and SDVoE, with virtually matching specifications.



*Single or Multimode Fiber with 10G SFP+ Modules or 10G SFP+ AOC Cable
 **Single or Multimode Fiber with 40G QSFP+ Module or 40G QSFP+ AOC Cable

PRODUCT SPECIFICATIONS

PORTS:

Ethernet	(1) 10G female RJ45 port for SDVoE and Dante streams transmissions, (1) 1G female RJ45 port for Ethernet extension or CBOX control. Both are PoE compatible.
SFP+	(1) 10G SFP+ Port used for SDVoE and Dante streams transmissions
HDMI	(1) HDMI input (1) HDMI output"
Audio	(1) TOSLINK (1) x 3 Pin Terminal Block (1) 3.5mm female stereo jack. It can be audio input or audio output, depending on if TCVR is in Encoder or Decoder mode respectively.
IR	(1) 3.5mm IR OUT Port (1) 3.5mm IR-EYE Port (1) 3.5mm I-PASS Port
RS232	(1) x 3 Pin Terminal Block for MXNet System Control
USB	(1) USB Type-C for MXNet Service (1) USB Type-B full speed USB 2.0 480Mbps Data Rate (2) USB Type-A full speed USB 2.0 480Mbps Data Rate

DISTANCE:

Ethernet	100 Meters/330 Feet over CAT6a
SFP+ and Fiber	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

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)
Thermal dissipation	Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr

POWER:

Power Consumption	Encoder ≈7W, Decoder ≈8W
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)	mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98
Dimension (Packaged)	mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13
Weight (Unit)	1.76 lbs./0.8 kg
Weight (Packaged)	2.25 lbs./1.02 kg
Regulatory	CE/FCC
Product Warranty	10 Years

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

FEATURE SET

- Maximum range up to 100 meters using a single twisted pair Cat6a cable (40m/Cat5e, 55m/Cat6)
- Maximum range up to 18.6 miles using single-mode fiber, through industry standard SFP+ modules
- Zero frame latency, zero image artifacts, zero compression up to 4K/30fps 4:4:4 8-bit.
- HDMI 4K/60fps 4:4:4 8-bit (100µs frame latency, or 1/150th of a frame); 4K/60fps 4:2:2 10-bit, and 4K/60fps 4:2:0 12-bit, are transported visually lossless with a pixel-perfect light compression of 1.3:1
- Data packetization at encoding enables pixel-perfect transport and decoding for artifact-free, crystal clear images
- Full Dolby Vision, HDR10, HDR10+, HLG, and IMAX Enhanced support
- Auto Color Space cross-conversion for RGB sources (full API adjustability at any point in the signal chain)
- Fast Switching, with Upscaling to 4K or Downscaling from 4K supported when operating in Decoder mode
- Video wall configurations feature bezel correction and asymmetric wall support, for wall arrays up to 8 x 8.
- Bidirectional Control for: IR; RS-232; Hi-Speed USB 2.0; Ethernet 1Gbps
- USB-B Host connection and KVM Control

AC-MXNET-10G-TCVR-PRO Exclusive USB Features

- Icron Technologies ExtremeUSB® feature suite ensures a consistent, trouble-free user experience
- Plug and Play
- No software drivers required
- Compatible with Windows, Mac OS and Linux
- USB Low, Full and High Speed support
- Up to 480mbps throughput

AC-MXNET-10G-TCVR-PRO Exclusive Dante Features

- 100% Lossless compression-free codec transport
- Software-defined signal flow and signal routing
- All industry sample rates supported from 44.1kHz up to 192kHz, 24-bit and 32-bit
- Ultra-low latency, 1ms or less, with sub-microsecond synchronization
- Digitally packetized multicast audio available at any endpoint
- High channel capacity (up to 512 x 512) per device