





AC-MXNET-10G-TCVR | TRANSCEIVER MXNET 10G

The MXNet Ecosystem is an AV over IP platform of products that uses traditional networking infrastructure to route video and audio signals through large scale systems with unlimited numbers of sources and displays, all switching independently and seamlessly. Designed and developed by AVPro Edge to be truly "plug and play", MXNet provides the complete end-to-end solution for stability, interoperability, and easy deployment of the entire ecosystem.



OVERVIEW

Inarguably, the most versatile product in the AVPro MXNet 10-G SDVoE ecosystem is the AC-MXNET-10G-TCVR, a single SKU, dual-use configurable, advanced modular AV-over-IP encoding / decoding IP streaming solution. Whether deployed as a transmitter (Encoder) or receiver (Decoder), AVPro Edge has cultivated multiple advanced concepts into this A/V tour de force that just a single year ago, seemed implausible. An indispensable design, it is unique and destined to become an instant classic. The new AC-MXNET-10G-TCVR serves as both a gateway and

destination point for the next generation 10G lineup of AVover-IP multicast offerings from AVPro Edge.

Audio, Video and Control signals reside on autonomously isolated layers within the SDVoE platform, each independently routable for unparalleled flexibility with flawless distribution over a 10GbE copper, fiber, or hybrid-blended network. A built-in, segregated, 1GbE Ethernet w/ PoE full gigabit sub-network channel is reserved for high-speed local network connections.

FEATURES

1 Gigabit Ethernet Network Port, Supports PoE (1G maximum data rate)	 8-pin RJ-45 female connector, 1000BASE-T copper Ethernet port Supports standard PoE power, IEEE 802.3AF (15.4W), maximum power consumption of 6.5 watts 10/100/1000Mbps auto-negotiation, MDI/MDI-X cable mode auto-negotiation Maximum distance 100m (330ft) over Cat5e and higher Compatible with all MXNet network switches or point-to-point applications with MXNet decoder Optional DC 12V local power supply
Bidirectional SFP Port Fiber Optic Connector (SFP transceiver modules sold separately)	 Supports single mode or multimode SFP modules for extremely long cable runs Recommended standard single mode fiber: LC to LC 1310nm, up to 40km (24.85 miles) Recommended standard multimode fiber: LC to LC 850nm, up to 550m (1804 feet) Compatible with most SFP transceiver modules available on the US market
HDMI Input Port	19-pin HDMI® Type A female connector Source device input for HDMI connection
HDMI Output Loop Out Port	 19-pin HDMI Type A female connector Sends HDMI signal pass-through from locally connected input source Copy EDID functionality in conjunction with front panel button EDID COPY FROM LOOP OUT

Audio Input Port	 3.5mm stereo jack (TRS) audio input port Auto-detects input once directly connected, will override HDMI input audio stream
Audio Output Port (de-embedded audio)	 5-pin terminal block connector Extracts balanced analog 2-channel PCM audio
USB Host Port	 USB 2.0 Type B female connector USB extension for connection to a computer or other USB 2.0 devices Supports KVM routing and hosting
Mini-OLED Data Window *Exclusive and Proprietary Feature from AVPro Edge!	 Built-in front panel mini-OLED screen Displays encoder's custom name or MAC address (if no custom name is assigned) and IP address Toggle options allow screen on, off, or flashing for visibility
IR Input Ports for I–PASS and IR–EYE	 (2x) 3.5mm stereo jack (TRS) IR receiver ports I-PASS port sends IR signals via a direct connection from a control processor to the IR output of the desired endpoint(s) IR-EYE port supports use of an IR eye to capture IR signals from a control system processor or third-party remote to send IR signals to the IR output of the desired endpoint(s)
IR Output Port	 3.5mm mono jack (TS) IR transmitter port Sends encapsulated/virtualized IR signals upstream via the MXNet API
RS-232 Port	 3-pin terminal block connector port Sends encapsulated/virtualized RS-232 (serial pass-through) over IP via the MXNet API Supports serial routing with direct connection to a control system processor
Integrated Metal Chassis Device Casing	 Chip-top heatsink specifically designed to efficiently disperse heat Entire internal frame functions as one giant heatsink Eliminates the need for internal cooling fans
Unlimited and Expandable End Points with Auto-device Discovery	 Unlimited number of sources, displays, USB devices, and video walls Once all MXNet Ecosystem devices are properly connected and powered on, Mentor auto-detects each endpoint device and replicates the physical MXNet Ecosystem in a digital space A Link-local IP address is self-assigned to each encoder by factory default The MAC address and multicast channel are pre-assigned to each encoder
Custom Video Walls	 Supports unlimited number of video walls, each up to 64 panels Layouts include standard arrays (2x2, 3x3, 1x2, etc.) and mosaic-style (artistic) with overlapping displays of various sizes Panels may be rotated 180 or 270 degrees JPEG 2000 supports GEN LOCK for tear-free video wall images Retains Dolby Vision and HDR10 metadata pass-through
JPEG 2000 Video Encoding	 Progressive decoding delivers both lossy and lossless compression within a code stream Supports GEN LOCK, frames of a video source are synced to all decoders for tear-free video walls Bit rate errors are minimized by packetizing data into smaller blocks for higher quality image fidelity Supports Dolby Vision®, HDR, and accepts 10-bit color and reduces color banding Content-specific flexible data rates from 200Mbps to 850Mbps, allows managing bandwidth usage Utilized by DCI for motion pictures, live HD broadcasting, and DICOM® for medical imaging communications

Built-in Scaling / Output Resolution Settings	 Select video resolutions from 720p 50Hz to 4K 60Hz Downscale one or multiple decoders to lower-resolution sink devices while maintaining high-quality video to other zones Interlaced formats are converted to progressive when output scaling is enabled (Note: scaler usage will affect switching times, often reducing switching times in most cases)
Fast Switching Times	 Switching times range between 4-7 seconds for pass-through content of the same format, or 5-10 seconds between content of different formats (such as 1080p 60Hz SDR / 4K 30Hz HDR, depending on the display type) Switching times of 2 seconds achievable with proper scaling and formats Ultra-low, nearly zero latency

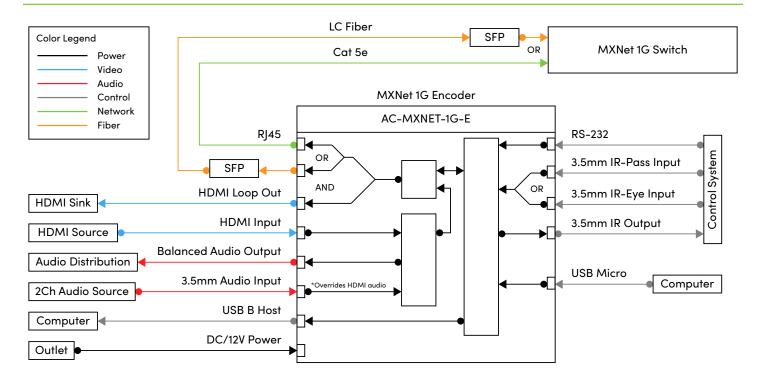
BENEFITS

Oversee HDR Metadata	 Select video resolutions from 720p 50Hz to 4K 60Hz Downscale one or multiple decoders to lower-resolution sink devices while maintaining high-quality video to other zones Interlaced formats are converted to progressive when output scaling is enabled (Note: scaler usage will affect switching times, often reducing switching times in most cases)
MXNet Mentor Web Interface	 Mentor is MXNet's proprietary setup, configuration, and testing web interface that comes pre-installed on every AC-MXNET-CBOX
	 Features simple, yet powerful and advanced tools and settings to provide a complete setup and control solution for every MXNet installation
	 Customizable configurations allow EDIDs, custom names, and descriptions assigned to every encoder
	 Live Diagnostics provide real-time status feedback for HDMI and network cable connections for monitoring link quality and speed
	 View the source video resolution, HDR metadata detection, color bit depth, HDCP version, hot-plug events, and preview source images as thumbnails that update every 10 seconds
Full Control of External Front Panel Lights	 Toggle options allow front panel LEDs and mini-OLED screen stay lit on, continuously flash for quick visibility and troubleshooting when locating devices, or completely off for real-time dark mode
Supports Third-Party Control Systems	 Drivers available for third-party control systems, such as Control4®, Crestron®, Savant, RTI®, ELAN®, Q-SYS™, URC®, etc.

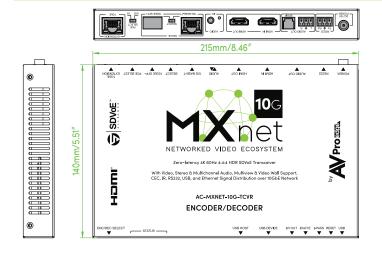
SPECIFICATIONS

Signal Type DVI 1.0, HDMI 2.0b Video Resolution 4K(600Hz 4:4-4, 4K(630Hz 4:4-4, 4K(600Hz 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: PCM 2, 51, 71 Channel, Dolby Digital 5:1 Channel, Dolby Digital Plus, DTS 5:1 Channel, DTS-ES, DTS-HD High Resolution DE-Embedded Audio Stereo Analog Audio De-Embedded Audio Balanced Analog Audio De-Embedded Audio Balanced Analog Audio PORTS: Ethernet (1) 10G Female R145 port for SDV6E transmissions, (1) 1G Female R145 port for Ethernet extension or CBCX control. Both are Pec Compatible. SPP (1) 10G SFP+ Port used for SDV6E transmissions HDMI (1) HDMI input (1) HDMI inpu	VIDEO:	
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: Build Depth per Color 1080P (16Bit), 4k (10, 12 Bit) Audio Format PCM 2, 51, 71 Channel, Dolby Digital S.1 Channel, Dolby Digital Plus, DTS 5.1 Channel, DTS-ES, DTS-HD High Resolution Embedded Audio Belanced Analog Audio De-Embedded Audio Belanced Analog Audio PORTS: Companies Ethernet (1) 10G Female R]45 port for SDV6E transmissions, (1) 1G female R]45 port for Ethernet extension or CBOX control. Both are P6E compatible. SFP (1) 10G SFP» Port used for SDV6E transmissions. (1) 1G female R]45 port for Ethernet extension or CBOX control. Both are P6E compatible. SFP (1) 10G SFP» Port used for SDV6E transmissions. (1) 1G female R]45 port for Ethernet extension or CBOX control. MDMI (1) 10Mil implit (1) 10Mil implit (1) 10Mil implit MDMI (1) 11 MDM implit (1) 11 MDM implit (1) 11 MDM implit RS22 (2) 13 MDM imministeries particles and solve (2) 12 MDM imministeries particles and solve <td></td> <td>DVI10 HDMI30b</td>		DVI10 HDMI30b
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Bit Depth per Color AUDIC: Audio Format Audio Format Audio Format Audio Format PCM 2, 51, 71 Channel, Dolby Digital 51 Channel, Dolby Digital Plus, DTS 51 Channel, DTS-ES, DTS-HD High Resolution Embedded Audio Balanced Analog Audio PORTS: Ethernet (1) 10G female RJ45 port for SDVoE transmissions, (1) TG female RJ45 port for Ethernet extension or CBOX control. Both are PoE compatible. SFP (1) 10G SFP+ Port used for SDVoE 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 (3) x 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out RS232 (1) x 3 Pin Terminal Block for MXNet System Control USB (1) SB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/3 30 Feet over CAT5e and above SFP+ and Fiber 110G SFP+ AOC coble up to 3 meters, 10G SFP+ Multimode transceiver over Multimode fiber up to \$50 meters, 10G SFP+ Single mode transceiver over Single mode fiber up to 20 Kilometers ENVIRONMENTAL: ENVIRONMENTAL: Operating Temprature 23 to 125°F (-5 to 51°C) Sperating Temprature 3 to 105°F - AOC coble up to 3 meters, 10G SFP+ Multimode transceiver over Multimode fiber up to \$50 meters, 10G SFP+ Single mode from sceiver over Single mode fiber up to 20 Kilometers ENVIRONMENTAL: POWER: ENVIRONMENTAL: Discover Consumption Encoder = 9.1W, Decoder = 9.2W PoE (Power over Ethernet) EEE 802.3cf (15.4W) Power Supply Unit Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A Thermal dissipation Encoder = 9.1W, Decoder = 9.2W PoE (Power over Ethernet) Dimensions (Unit Only Width/Depth/Height) Dimensions (Poetaged Width/Depth/Height) Dimensions (Poetaged Width/Depth/Height) Formal Resource		
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De-Embedded Audio PORTS: Ethernet (1) 10G female R]45 port for SDVoE transmissions, (1) 1G female R]45 port for Ethernet extension or CBOX control. Both are PoE compatible. SFP (1) 10G SFP+ Port used for SDVoE transmissions HDMI (1) HDMI input (1) HDMI input (1) HDMI input (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 (3) x 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out (1) x 3 Pin Terminal Block for MXNet System Control USB USB (1) x 3 Pin Terminal Block for MXNet System Control USB USB (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-A (1) x 3 Pin Terminal Block for MXNet System Control USB Type-B, (2) USB Type-B, (2) USB Type-A (2) USB Type-B, (2) USB Type-B, (2) USB Type-A (2) USB Type-B, (2) USB Type-B, (2) USB Type-B, (2) USB Type-A (2) USB Type-B, (2) USB Type-B, (2) USB Type-B, (2) USB Type-A (3) x 3.5mm mini-stereo jack, in Encoder system Control USB Type-B, (2) USB Type-		DTS-HD High Resolution
Ethernet (1) 10G female RJ45 port for SDV6E transmissions, (1) 1G female RJ45 port for Ethernet extension or CBOX control. Both are PoE compatible. SFP (1) 10G SFP+ Port used for SDV6E 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 (2) x 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out RS232 (1) x 3 Pin Terminal Block for MXNet System Control USB (1) USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above SFP+ and Fiber 100 SFP+ AOC cable up to 3 meters, 10C SFP+ Multimode transceiver over Multimode fiber up to 550 meters, 10C 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 3-4 to 140°F (-20 to 60°C) Operating Humidity 5-90% RH (No Condensation) POWER: HAMAP Power Consumption Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Reck and Furniture mount support Dimensions (mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98 Dimensions (Pockaged Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Pockaged Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Pockaged Width/Depth/Height) (Pockaged Width/Depth/Height) (Pockaged) 2.25 Ibs./1.02 kg Weight (Pockaged) 2.25 Ibs./1.02 kg Weight (Pockaged) 2.25 Ibs./1.02 kg Regulatory (E/FCC/UL Product Warranty 10 Years		· ·
Ethernet	De-Embedded Audio	Balanced Analog Audio
Fine Fine Or CBOX control. Both are PoE compatible.	PORTS:	
HDMI (1) HDMI input (1) HDMI output oudio output, depending on if TCVR is in Encoder or Decoder mode respectively. IR (3) × 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out (1) × 3 Pin Terminal Block for MXNet System Control (1) × 3 Pin Terminal Block for MXNet System Control (1) VBB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A (1) VBB Type-A (1) VBB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A (1) VBB Type-A (1) VBB Type-B, (2) USB Type-B, (2) USB Type-A (1) VBB Type-B, (2) USB Type-B, (2) USB Type-A (1) VBB Type-B, (2) USB Type-B, (2	Ethernet	
Audio (1) HDMI output (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 (3) x 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out RS232 (1) x 3 Pin Terminal Block for MXNet System Control USB (1) USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above SFP+ and Fiber 105 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 Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W Foe (Power over Ethernet) IEEE 802.3af (15.4W) Power Supply Unit DIMENSIONS: Rack and Furniture mount support DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Wildth/Depth/Height) mm: 215 x 140 x 25 inch: 8.46 x 5.51 x 0.98 Dimensions (Unit Only Wildth/Depth/Height) mm: 310 x 180 x 54 inch: 12.2 x 7.09 x 2.13 Weight (Unit) Meight (Unit) Regulatory CE/FCC/UL Product Warranty 10 Years	SFP	(1) 10G SFP+ Port used for SDVoE transmissions
audio output, depending on if TCVR is in Encoder or Decoder mode respectively. IR (3) × 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out RS232 (1) x 3 Pin Terminal Block for MXNet System Control USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above SFP+ and Fiber 105 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 Temprature 2 3 to 125°F (−5 to 51°C) Storage Temperature 4-4 to 140°F (−20 to 60°C) Operating Humidity 5-90% RH (No Condensation) POWER: Max Power Consumption Encoder ≈ 9.1W, Decoder ≈ 9.2W Po€ (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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Packaged Width/Depth/Height) Inch: 12.2 × 7.09 × 2.13 Weight (Unit) 1.76 lbs./0.8 kg Weight (Pockaged) 2.25 lbs./1.02 kg Regulatory CE/FCC/UL Product Warranty 10 Years	HDMI	
RS232 (1) x 3 Pin Terminal Block for MXNet System Control USB (1) USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above SFP+ and Fiber 105 SFP+ AOC cable up to 3 meters, 10G SFP+ Multimode transceiver over Multimode fiber up to 500 meters, 10G SFP+ Single mode transceiver over Single mode fiber up to 20 Kilometers ENVIRONMENTAL: Operating Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W Power Supply Unit Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, ZA Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Packaged Width/Depth/Height) mm: 215 × 140 × 25 inch: 12.2 × 7.09 × 2.13 Dimensions (Packaged Width/Depth/Height) mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13 Weight (Packaged) 2.25 lbs./1.02 kg Regulatory CE/FCC/UL Product Warranty </td <td>Audio</td> <td></td>	Audio	
USB (1) USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above SFP+ and Fiber 105 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 Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Packaged Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/ Height) inch: 12.2 × 7.09 × 2.13 Weight (Packaged) 2.25 lbs./1.02 kg Regulatory CE/FCC/UL Product Warranty 10 Years	IR	(3) × 3.5mm mini-stereo jack, one IR-Pass, one IR-EYE, one IR-out
DISTANCE: Ethernet 100 Meters/ 330 Feet over CAT5e and above 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 Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Maunting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	RS232	(1) x 3 Pin Terminal Block for MXNet System Control
Ethernet 100 Meters/ 330 Feet over CAT5e and above 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 fransceiver over Single mode fiber up to 20 Kilometers ENVIRONMENTAL: Operating Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) Dimensions (Packaged Width/Depth/Height) Dimensions (Packaged Width/Depth/Height) Meight (Unit) 1.76 lbs./0.8 kg Weight (Packaged) 2.25 lbs./1.02 kg Regulatory CE/FCC/UL Product Warranty 10 Years	USB	(1) USB Type-C for MXNet Service, (1) USB Type-B, (2) USB Type-A
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 Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W PoE (Power over Ethernet) IEEE 802.3af (15.4W) Power Supply Unit Output: Dc 12V, 2A Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) Dimensions (Unit Only Width/Depth/Height) Dimensions (Packaged Width/Depth/Height) Meight (Unit) 1.76 lbs./0.8 kg Weight (Packaged) 2.25 lbs./1.02 kg Regulatory CE/FCC/UL Product Warranty 10 Years	DISTANCE:	
to 550 meters, 10G SFP+ Single mode transceiver over Single mode fiber up to 20 Kilometers ENVIRONMENTAL: Operating Temprature 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 Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) Dimensions (Packaged Width/Depth/Height) Power Supply Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) Input: AC 120-240V, 50/60Hz, 0.8A mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13 Weight (Unit) 1.76 lbs./0.8 kg Weight (Packaged) Regulatory CE/FCC/UL Product Warranty 10 Years	Ethernet	100 Meters/ 330 Feet over CAT5e and above
Operating Temprature23 to 125°F (-5 to 51°C)Storage Temperature-4 to 140°F (-20 to 60°C)Operating Humidity5-90% RH (No Condensation)POWER:Max Power ConsumptionEncoder ≈ 9.1W, Decoder ≈ 9.2WPoE (Power over Ethernet)IEEE 802.3af (15.4W)Power Supply UnitInput: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2AThermal dissipationEncoder 39.32 BTU/hr, Decoder 33.56 BTU/hrDIMENSIONS:MountingRack and Furniture mount supportDimensions (Unit Only Width/Depth/Height)mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98Dimensions (Packaged Width/Depth/Height)mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13Weight (Unit)1.76 lbs./0.8 kgWeight (Packaged)2.25 lbs./1.02 kgRegulatoryCE/FCC/ULProduct Warranty10 Years	SFP+ and Fiber	
Storage Temperature	ENVIRONMENTAL:	
Operating Humidity 5-90% RH (No Condensation) POWER: Max Power Consumption Encoder ≈ 9.1W, Decoder ≈ 9.2W 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 Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	Operating Temprature	23 to 125°F (-5 to 51°C)
POWER: Max Power Consumption	Storage Temperature	-4 to 140°F (-20 to 60°C)
Max Power ConsumptionEncoder ≈ 9.1W, Decoder ≈ 9.2WPoE (Power over Ethernet)IEEE 802.3af (15.4W)Power Supply UnitInput: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2AThermal dissipationEncoder 39.32 BTU/hr, Decoder 33.56 BTU/hrDIMENSIONS:MountingRack and Furniture mount supportDimensions (Unit Only Width/Depth/Height)mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98Dimensions (Packaged Width/Depth/Height)mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13Weight (Unit)1.76 lbs./0.8 kgWeight (Packaged)2.25 lbs./1.02 kgRegulatoryCE/FCC/ULProduct Warranty10 Years	Operating Humidity	5-90% RH (No Condensation)
PoE (Power over Ethernet) Power Supply Unit Input: AC 120–240V, 50/60Hz, 0.8A Output: DC 12V, 2A Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) Dimensions (Packaged Width/Depth/ Height) mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13 Weight (Unit) 1.76 lbs./0.8 kg Weight (Packaged) Regulatory CE/FCC/UL Product Warranty Input: AC 120–240V, 50/60Hz, 0.8A Output: DC 12V, 2A Input: AC 120–240V, 50/60Hz, 0.8A Output: DC 12V, 2A Input: AC 120–240V, 50/60Hz, 0.8A Output: DC 12V, 2A Input: AC 120–240V, 50/60Hz, 0.8A Output: DC 12V, 2A Input: AC 120–240V, 50/60Hz, 0.8A Output: AC 120–24	POWER:	
Power Supply Unit Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) Dimensions (Packaged Width/Depth/Height) mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13 Weight (Unit) 1.76 lbs./0.8 kg Weight (Packaged) Regulatory CE/FCC/UL Product Warranty Input: AC 120-240V, 50/60Hz, 0.8A Output: DC 12V, 2A Encoder 33.56 BTU/hr Decoder 35.56 BTU/hr Decoder 35.5	Max Power Consumption	Encoder ≈ 9.1W, Decoder ≈ 9.2W
Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	PoE (Power over Ethernet)	IEEE 802.3af (15.4W)
Thermal dissipation Encoder 39.32 BTU/hr, Decoder 33.56 BTU/hr DIMENSIONS: Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	Power Supply Unit	
Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	Thermal dissipation	
Mounting Rack and Furniture mount support Dimensions (Unit Only Width/Depth/Height) mm: 215 × 140 × 25 inch: 8.46 × 5.51 × 0.98 Dimensions (Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years	·	·
(Unit Only Width/Depth/Height)inch: 8.46 × 5.51 × 0.98Dimensions (Packaged Width/Depth/Height)mm: 310 × 180 × 54 inch: 12.2 × 7.09 × 2.13Weight (Unit)1.76 lbs./0.8 kgWeight (Packaged)2.25 lbs./1.02 kgRegulatoryCE/FCC/ULProduct Warranty10 Years		Rack and Furniture mount support
(Packaged Width/Depth/Height) 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/UL Product Warranty 10 Years		······ = · · · · · · = ·
Weight (Packaged) Regulatory CE/FCC/UL Product Warranty 2.25 lbs./1.02 kg CE/FCC/UL	(Packaged Width/Depth/	
Regulatory CE/FCC/UL Product Warranty 10 Years	Weight (Unit)	1.76 lbs./0.8 kg
Product Warranty 10 Years	Weight (Packaged)	2.25 lbs./1.02 kg
,	Regulatory	CE/FCC/UL
Specifications subject to change without notice. Mass & dimensions are approximate	Product Warranty	10 Years
	Specifications subject to change v	without notice. Mass & dimensions are approximate

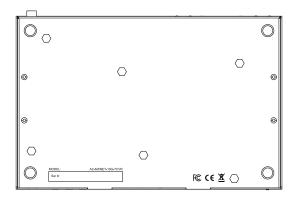
WIRING DIAGRAM



CAD DIAGRAM









MXNet 10G Transceiver: AC-MXNET-10G-TCVR







