



MXnet USP Pro Transceiver (AC-MXNET-USP-PR)

The USP Pro is a versatile and premium 4K60 AV over IP transceiver powered by AVPro Flow, engineered for dynamic and scalable AV deployments across a wide range of professional environments. Supporting both H.265 and H.264 codecs, the USP Pro delivers efficient, high-quality video distribution over standard IP networks.

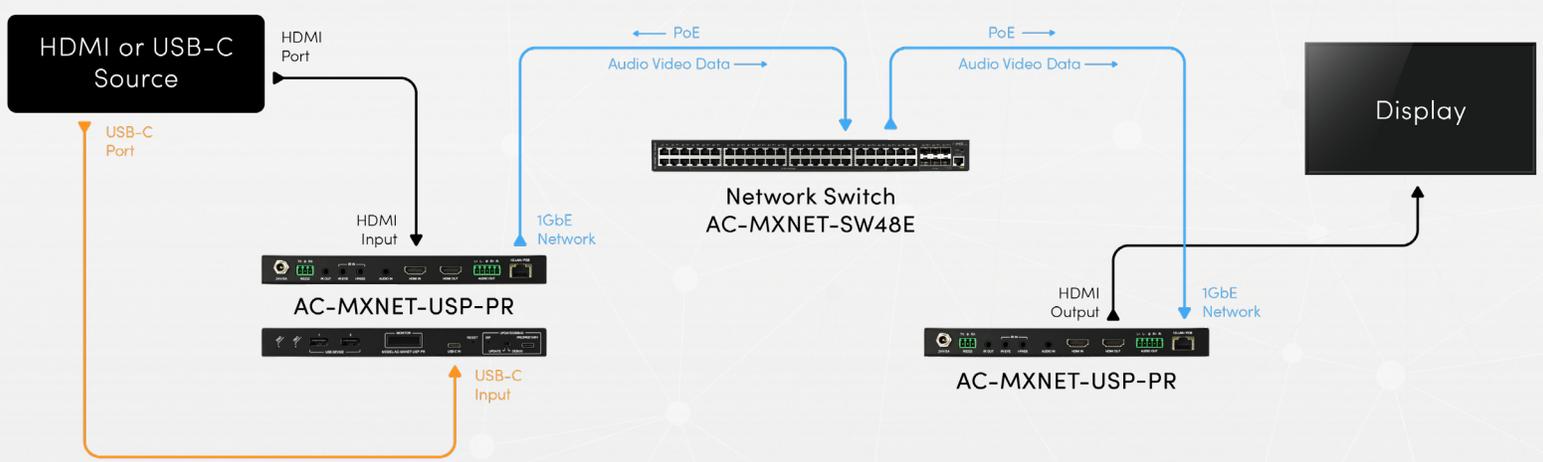
The USP Pro is part of the Universal Stream Platform of transceivers, which also includes the USP Essential and USP Plus models. Mix and match USP models giving you the freedom to build the AV system you need, no matter the size, layout, or budget.

The USP Pro is purpose-built for professional AV environments, combining powerful features into one compact device. It delivers unmatched versatility and performance and is ideal for a wide range of commercial applications. From hospitality and higher education to government facilities and transportation hubs.

All USP models are built with AVPro Flow technology which provides interoperability between MXnet endpoints and compatible 3rd-party H.265/H.264 AV equipment. Whether integrating existing H.265/H.264 encoders, software-based decoders, or streaming platforms, AVPro Flow ensures reliable, low-latency video transport across mixed environments.



MXnet USP PR Connection Diagram



PRODUCT SPECIFICATIONS

KEY BENEFITS

VIDEO	
Input	1x HDMI 2.0b Type A 1x USB-C with DisplayPort Alt-Mode
Output	1x HDMI 2.0b Type A
Max Encoding Resolution	4096x2160p 60Hz 4:4:4 8-bit YCbCr/RGB
Max Decoding Resolution	7680x4320p 30Hz 4:4:4 8-bit YCbCr
HDR	Not Supported
HDCP	2.3 and Earlier
Codec	H.265/H.264 AVPro Flow Enabled
AUDIO	
Input	1x 3.5mm Stereo Mini-jack
Output	1x 5-pin Phoenix Balanced Stereo
Formats	2CH PCM, 2CH Dante, 2CH AES67
NETWORK	
Ethernet	1x 1GbE RJ-45 (100m/328ft)
End-to-End Latency	≤75ms
Bandwidth	H.265 @ 4K60: ~60Mbps
Stream Protocols	Multicast RTP (Private Stream, AES-256 Encrypted) RTSP, RTMP (Open Stream/AVPro Flow)
CONTROL/USB	
IR	1x IR Receive 1x IR Transmit 1x IR Passthrough
RS232	1x 3-pin Phoenix
USB	2x USB 1.1 Type A (Device) 1x USB 1.1 Type C (Host) 1x USB Type C (Debug)
ENVIRONMENTAL	
Operating Temperature	32 to 113°F (0 to 45°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Operating Humidity	5-90% RH (Non-Condensing)
Cooling	Active (Fan)
Acoustic Noise Level	27dB
POWER	
Power Consumption	Average: 12W Max: 22.8W
PoE (Power over Ethernet)	802.3at PoE+ (25W)
USB-C Power Delivery	Up to 60W (20V 3A)
External Power Supply	24V 5A DC (Sold Separately. Required to enable USB-C power delivery.)
DIMENSIONS	
Mounting	Rack mount or surface mount capable Supported Rack Mounts: AC-MXNET-1G-R15 *Does not support the R2 rack mount
Dimensions (Unit only Width/Depth/Height)	200mm x 160mm x 20mm
Dimensions (Packaged Width/Depth/Height)	250mm x 185mm x 50mm
Weight (Unit)	2.12 lbs
Weight (Packaged)	2.81 lbs
REGULATORY	
Product Warranty	10 Years
Certifications	CE, FCC

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

- AVPro Flow Enabled:** AVPro Flow enables interoperability between MXnet and a wide range of H.26x-based third-party AV devices, from lecture capture systems to IP cameras, live streaming platforms or production environments. Whether you're expanding a hybrid workspace, modernizing an existing AV system, or integrating new technology into a live production environment, AVPro Flow ensures you don't have to start from scratch. Gain greater flexibility, broader compatibility, and maximum value from your current and future AV investments.
- Native Multiview:** With USP Pro, multiview comes standard, no extra hardware or software needed. Display up to an incredible sixteen video sources in customizable layouts, perfect for monitoring, collaboration, or dynamic signage. Seamlessly composite streams from any USP encoder or compatible third-party H.265/H.264 IP sources, all within one compact, cost-effective device. It's powerful multiview processing, built right in.
- Simultaneous Encode/Decode:** Every USP model is a true two-way AV endpoint, capable of sending and receiving streams at once. This dual-functionality unlocks powerful new workflows and can reduce hardware costs, rack space, power consumption, and network complexity. Whether designing a hybrid meeting room, or deploying a large-scale AV distribution system, this dual-functionality means fewer devices, simpler installations, and a more budget-friendly path to scalable AV.
- Mix and Match:** The USP ecosystem is designed with flexibility at its core allowing you to mix and match any combination of USP Essential, USP Plus, and USP Pro devices within the same network. Each model brings its own strengths while working seamlessly together. This modular approach lets you build exactly what your system needs today, with the freedom to scale or upgrade in the future without ripping and replacing existing infrastructure. It's AV on your terms, powered by one unified platform.
- Integrated Signage Player:** Every USP device comes equipped with an integrated digital signage player, making it easy to deliver branded content, messaging, or live video without the need for external players or servers. Simply upload and schedule content directly to any USP endpoint, perfect for lobbies, campuses, retail displays, transportation hubs, and more. The USP signage engine turns every screen into a dynamic communication tool, streamlining deployment, reducing hardware costs, and maximizing visual impact.
- Single Cable Solution:** The USP Pro features a versatile USB-C input that delivers a true single-cable solution by combining DisplayPort video, USB HID, and up to 60W power delivery in one sleek connection. This all-in-one interface streamlines setup for laptops and devices, reducing cable clutter and enhancing user convenience. Perfect for modern workspaces, collaboration rooms, and hybrid environments, USB-C ensures fast, reliable AV transmission while keeping devices powered and connected effortlessly.
- Dante/AES67 Audio:** The Plus and Pro models come equipped with native support for 2CH Dante or AES67 audio protocols, ensuring seamless integration with professional audio networks. Whether you're routing audio in corporate boardrooms, live event venues, or educational campuses, USP delivers pristine, low-latency digital audio alongside your video streams. This compatibility simplifies system design, enhances interoperability with third-party audio equipment, and guarantees your AV setup sounds as good as it looks