



MXnet USP Plus Transceiver (AC-MXNET-USP-PL)

The USP Plus is a versatile 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 Plus delivers efficient, high-quality video distribution over standard IP networks.

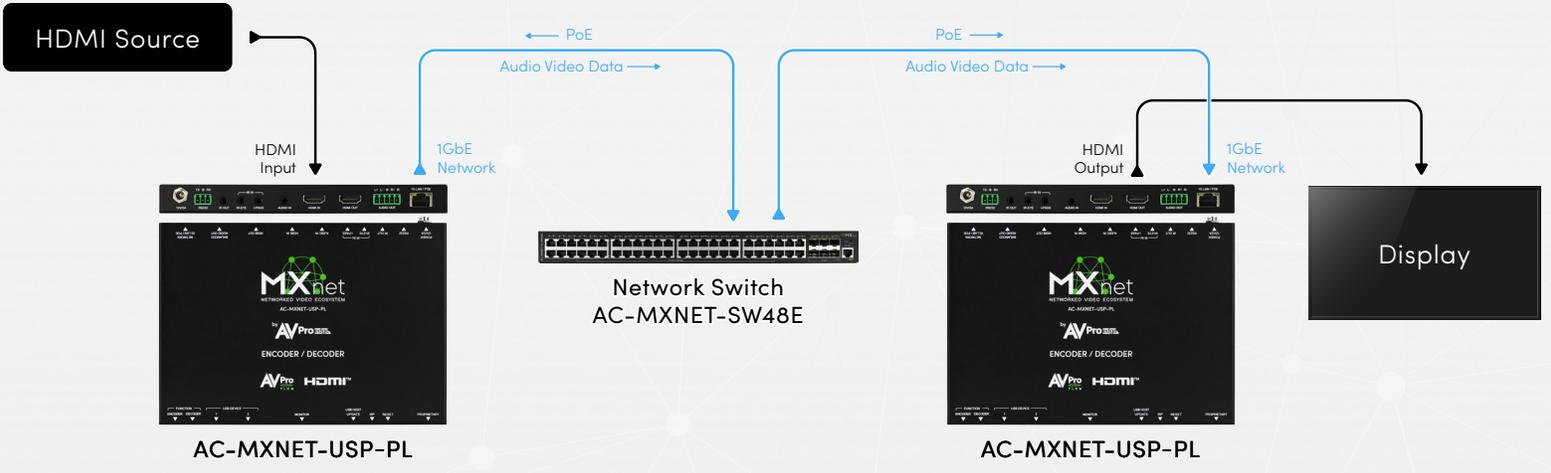
The USP Plus is part of the Universal Stream Platform of transceivers, which also includes the USP Essential and USP Pro models. Mix and match USP models giving you the freedom to build the AV system you need, no matter the size, layout, or budget.

The USP Plus 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 PL Connection Diagram



PRODUCT SPECIFICATIONS

KEY BENEFITS

| VIDEO | |
|---|---|
| Input | 1x HDMI 2.0b Type A |
| Output | 1x HDMI 2.0b Type A |
| Max Encoding Resolution | 4096x2160p 60Hz 4:4:4 8-bit YCbCr/RGB |
| Max Decoding Resolution | 4096x2160p 60Hz 4:4:4 8-bit YCbCr/RGB |
| 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 | 1x USB Type C (Debug) 2x USB 1.1 Type A (Device) 1x USB 1.1 Type C (Host) |
| 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 | Passive |
| Acoustic Noise Level | 0dB |
| POWER | |
| Power Consumption | Average: 12W Max: 14.2W |
| PoE (Power over Ethernet) | 802.3af PoE (15.4W) |
| External Power Supply | 12V 2A DC (Sold Separately) |
| DIMENSIONS | |
| Mounting | Rack mount or surface mount capable Supported Rack Mounts: AC-MXNET-1G-R15, AC-MXNET-1G-R2 |
| Dimensions (Unit only Width/Depth/Height) | 200mm x 140mm x 20mm |
| Dimensions (Packaged Width/Depth/Height) | 250mm x 185mm x 50mm |
| Weight (Unit) | 1.75 lbs |
| Weight (Packaged) | 2.25 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 Plus, multiview comes standard, no extra hardware or software needed. Display up to seven 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.
- USB Routing:** With USP Plus, extending and routing USB is simple and seamless. Designed to support keyboard, mouse, and touchscreen connectivity, USP Plus enables real-time USB extension over the network, perfect for interactive displays, KVM workflows, or remote control stations. Whether you're enabling touchscreen control in a conference room or managing devices across a control center, USP Plus delivers reliable USB performance with minimal latency.
- 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

