

Overview:

The HDMI over IP H.264/H.265 PoE Transmitter, 4K/60 allows HDMI source equipment to be extended locally up to 330ft (100m) at up to 4K @ 60Hz resolution via Cat5e/6 cable and is compatible with the Muxlab 500762-RX Receiver to support point-to-point, point-to-multipoint and multipoint-to-multipoint configurations, Video Wall and Multiview capabilities in a low bandwidth expandable and cost effective manner, without the need to install dedicated cabling systems. The exceptionally low bandwidth requirements of this device in the H.264/H.265 video codec setting allows for streaming audio/video content over a local network, and over the Internet for distributed installations spread throughout the globe. The unit also supports a MotionJPG (MJPG) video codec setting for low latency applications. The transmitter accepts a 4K video @ 60Hz and streams the content to an H.264/H.265 Receiver, such as the MuxLab 500762-RX, to be displayed on a 4K monitor. The Transmitter may also send H.264/H.265 video streams to other H.264/H.265 compatible Receiving devices. The device supports PoE (PD) and may be powered by a PoE (PSE) Ethernet Switch.

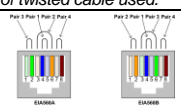


Applications:

- Audio/Video Streaming over LAN and Internet
- Commercial and residential AV systems
- Classroom projector systems
- Digital signage
- Boardroom systems
- Medical information systems

Key Features:

- Supports up to 4K @ 60Hz video resolution
- Extends local audio/video transmission up to 330ft (100m) over Cat5e/6 and may transmit globally over the internet
- H.264/265 video codec, excellent for LAN and Internet transmission
- MotionJPG (MJPG) video codec, for low latency applications
- High image quality and 200ms latency in low latency mode with H.265
- Supports Multicast, RTSP, RTMP, HLS, FLV, and TS
- Supports embedding of 2CH audio
- HDMI and 2CH Audio loop-out
- RS232 and Directional IR for remote control of end-devices
- PoE powered, via PoE (PSE) Ethernet Switch
- Compatible with the MuxLab 500762-RX Receiver to support Matrix connectivity, Video Wall and Multiview capabilities
- Supports 100's of TX & RX devices depending on network bandwidth
- Managed via Pro Digital Network Controller (500811 and 500812), MuxControl iOS and Android App, and third party Apps

Specifications											
Environment	HDMI 2.0, resolution of up to 4K/60 (4:4:4)										
Devices	Blu-Ray, Set Top Boxes, Media Players/Streamers, projectors, monitors, TVs, PCs, supporting HDMI.										
Signal Protocol/Standard	HDMI 2.0 and HDCP 2.2.										
Video Bandwidth	594MHz										
Network Bandwidth	32Kbps to 60Mbps for H.264/H.265, and 32Kbps to 200Mbps for MJPG.										
Latency	200ms (in low latency mode with H.265).										
Protocols	Supports Multicast, RTSP, RTMP (H.264), HLS, FLV (H.264), and TS										
Connectors	Two (2) HDMI connectors for AV input and AV Loop-out. One (1) RJ45S for Ethernet connection. Two (2) 3.5mm connectors for 2CH audio embedding and loop-out. One (1) 3.5mm connector for directional IR (direction controllable via software). One (1) RS232 3-Pin Phoenix connector for controlling end devices. One (1) 2.1mm locking power connector.										
Maximum Distance	Cat5e/6: 330ft (100m) from Ethernet Switch. Unlimited over the Internet <i>Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i>										
RJ45 Pin Configuration <i>Reverse Polarity Sensitive. Use EIA/TIA 568A or 568B straight-through wiring.</i>	<table border="0"> <tr> <td colspan="2">RJ45 Link</td> </tr> <tr> <td>Pin 1 (R)</td> <td>Pin 2 (T)</td> </tr> <tr> <td>Pin 3 (R)</td> <td>Pin 6 (T)</td> </tr> <tr> <td>Pin 4 (R)</td> <td>Pin 5 (T)</td> </tr> <tr> <td>Pin 7 (R)</td> <td>Pin 8 (T)</td> </tr> </table> 	RJ45 Link		Pin 1 (R)	Pin 2 (T)	Pin 3 (R)	Pin 6 (T)	Pin 4 (R)	Pin 5 (T)	Pin 7 (R)	Pin 8 (T)
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Pin 7 (R)	Pin 8 (T)										
Power Source	This device supports PoE (PD), an external power supply is not included. It is intended to be powered via a PoE (PSE) Ethernet Switch. If required, an optional power supply (500993) may be purchased separately.										
PoE	IEEE 802.3af										
Power Consumption	7.8W										
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing										
Unit Dimensions	6.1" x 4.4" x 1.0" (154mm x 111mm x 25mm)										
Shipping Weight	1.1lbs (0.5kg)										
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0										
Warranty	3 years										
Order Information	500764-TX HDMI over IP H.264/H.265 PoE Transmitter, 4K/60 (UPC: 627699907641)										
Accessories (These items are sold separately)	500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit 500990 IR Emitter, and 500994 IR Sensor 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade										

Typical Application

