

### Overview:

The HDMI over IP H.264/H.265 PoE Transmitter, 4K/30 allows HDMI source equipment to be extended locally up to 330ft (100m) at up to 4K @ 30Hz 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 combination allows for streaming audio/video content over a local network, over WiFi, and over the Internet for distributed installations spread throughout the globe. The transmitter accepts a 4K video @ 30Hz 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.

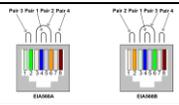


### Applications:

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

### Key Features:

- Supports up to 4K @ 30Hz video
- Works with the 500762-RX Receiver to support Matrix connectivity, Video Wall and Multiview capabilities
- Extends local audio/video transmission up to 330ft (100m) over Cat5e/6
- H.264/265 video codec, excellent for LAN, WiFi & Internet transmission
- High image quality and <200ms latency in low latency mode with H.265
- Supports 100's of TX & RX devices depending on network bandwidth
- Supports Multicast, RTSP, RTMP, HLS, FLV and TS
- Supports embedding of 2CH audio
- RS232 and Directional IR for remote control of end-devices
- PoE powered, via PoE (PSE) Ethernet Switch
- Managed via Pro Digital Network Controller (500811), MuxControl Smartphone & Tablet App, and third party Apps

Specifications									
<b>Environment</b>	HDMI 1.4								
<b>Devices</b>	Blu-Ray, Set Top Boxes, Media Players/Streamers, projectors, monitors, TVs, PCs, supporting HDMI.								
<b>Signal Protocol/Standard</b>	HDMI 1.4 and HDCP 1.4								
<b>Video Bandwidth</b>	300MHz								
<b>Network Bandwidth</b>	40Mbps (max)								
<b>Latency</b>	<200ms (in low latency mode with H.265)								
<b>Protocols</b>	Supports Multicast, RTSP, RTMP (H.264), HLS, FLV (H.264) & TS								
<b>Connectors</b>	One (1) HDMI connector for AV input. One (1) RJ45S for Ethernet connection. One (1) 3.5mm connector for audio embedding. One (1) 3.5mm connector for directional IR (direction controllable via software). One (1) RS232 DB9 connector for controlling end devices. One (1) Mini USB connector for firmware updates (can also update firmware via 500811 controller). One (1) 2.1mm locking power connector.								
<b>Maximum Distance</b>	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>								
<b>RJ45 Pin Configuration</b>	<p><b>RJ45 Link</b></p> <table border="0"> <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>  <p><i>Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B straight-through wiring.</i></p>	Pin 1 (R)	Pin 2 (T)	Pin 3 (R)	Pin 6 (T)	Pin 4 (R)	Pin 5 (T)	Pin 7 (R)	Pin 8 (T)
Pin 1 (R)	Pin 2 (T)								
Pin 3 (R)	Pin 6 (T)								
Pin 4 (R)	Pin 5 (T)								
Pin 7 (R)	Pin 8 (T)								
<b>Power Source</b>	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.								
<b>PoE</b>	IEEE 802.3af								
<b>Power Consumption</b>	4.5W								
<b>Temperature</b>	Operating: 0° to 40°C      Storage: -20° to 85°C Humidity: Up to 95% non-condensing								
<b>Dimensions</b>	4.4" x 4.4" x 1.0" (111mm x 111mm x 25mm)								
<b>Weight</b>	0.9lbs (0.4kg)								
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0								
<b>Warranty</b>	3 years								
<b>Order Information</b>	500763-TX HDMI over IP H.264/H.265 PoE Transmitter, 4K/30 (UPC: 627699907634)								
<b>Accessories</b> (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**

