

## Overview:

The HDMI over IP PoE TX, UHD-4K (model 500759-TX-HLO) allows HDMI video equipment supporting up to 4K @ 30Hz or 1080p @ 60Hz resolution to be connected and extended to create an independently distributed video network. 100's of Single Displays and Video Wall Displays of user configurable size (X by Y) may be supported, depending on network bandwidth. In addition, the unit features a local HDMI video output which allows the video source to be displayed on a local display.

The unit can be connected via Cat5e/6 cable up to 330ft (100m) from an Ethernet Switch, and supports PoE (PD) when powered by a PoE (PSE) Ethernet Switch. An IR Emitter or IR Sensor, if required, may be purchased separately for IR based remote control applications.

The MuxLab Pro Digital Network Controller (500812) and MuxControl App are available to simplify configuration and management of this and other MuxLab AV over IP networked devices via Smartphone and Tablet.



## Key Features:

- Supports up to 4K @ 30Hz and 1080p @ 60Hz
- Visually lossless video (1 frame latency)
- Configure a Video Wall array with 100's of displays, depending on network bandwidth
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat5e/6
- Supports audio insert
- Supports RS232 and IR transmission for remote control
- PoE powered
- HDMI Loop Out
- Control via any web device (mobile, tablet) with use of model 500812 (Pro Digital Network Controller)

Specifications									
<b>Environment</b>	HDMI 2.0a								
<b>Devices</b>	Blu-Ray, projectors, monitors, TV, PC, laptops, servers supporting HDMI.								
<b>Bandwidth</b>	300MHz								
<b>Signals</b>	HDMI 1.4 protocol								
<b>Connectors</b>	One (1) HDMI receptacle. One (1) HDMI loop out One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm jacks for IR emitter (on TX)/sensor (on RX). Two (2) 3.5mm jacks for audio insert (on TX)/audio extract (on RX). One (1) DB9 for the RS232 Four (4) DIP Switches for device ID addressing.								
<i>Note: Cables not included.</i>									
<b>Maximum Distance</b>	Cat5e/6: 330ft (100m) up to 4K @ 30Hz <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>								
<i>Based on a maximum length of 6.6ft (2m) of HDMI cable per end.</i>									
<b>Latency</b>	Typical one (1) Frame (16ms), maximum 2 frames (33ms)								
<b>Compression</b>	Proprietary Compression								
<b>Bandwidth</b>	Up to 850Mbps								
<b>Network Requirement</b>	1000BaseT with Jumbo Frame								
<b>IR Frequency</b>	38 to 56KHz (IR Emitter and IR Sensor sold separately)								
<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>	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 4 (R)	Pin 5 (T)								
Pin 7 (R)	Pin 8 (T)								
<b>Cable</b>	One (1) Cat 5e/6 or better twisted pair cables required								
<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>	Transmitter: 2.85Watt      Receiver: 2.55Watt								
<b>Temperature</b>	Operating: 0° to 40°C      Storage: -20° to 85°C Humidity: Up to 95% non-condensing								
<b>Dimensions</b>	4.40" x 5.08" x 1.00" (112mm x 129mm x 25mm)								
<b>Weight</b>	1.5lbs (0.68kg)								
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0								
<b>Warranty</b>	3 years								
<b>Order Information</b>	500759-TX-HLO HDMI over IP PoE TX with Loop Out, UHD-4K (UPC: 627699927595)								
<b>Accessories</b> (These items are sold separately)	500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit 500990 IR Emitter, and 500991 IR Sensor 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade								

**Typical Application**

