

Overview:

The AV over IP 4K/60 Uncompressed Extender, UTP allows HDMI and DisplayPort source equipment supporting up to 4K @ 60Hz resolution to be connected and extended to create a 4K/60 HDMI based Video Wall, Virtual Matrix Switch, and Virtual Splitter arrangements of user configurable size (X by Y) supporting 100's of screens, depending on network bandwidth, utilizing one Receiver for each display in the array. Each Transmitter (500760-TX) and Receiver (500760-RX) can be connected via Cat5e/6 cable up to 330ft (100m) from a 10Gig Ethernet Switch.

The Transmitter supports 2CH audio insertion and the Receiver supports 2CH audio extraction. The Transmitter and Receiver, each come with a power supply, an IR Emitter and IR Sensor for IR based remote control applications, a wall mount bracket kit for securing the unit to a wall and a 4-pin terminal block connector for RS232 connectivity.

The MuxLab Pro Digital Network Controller (500811) is available to simplify centralized configuration and control, software updates and allows for third party smartphone and tablet management.



Key Features:

- Supports HDMI up to 4K/60 on Transmitter and Receiver
- Support DisplayPort 1.2a up to 4K/60 on transmitter
- Uncompressed up to 4K/60 (4:2:0) (zero latency), and light compression visually lossless at (4:4:4) (1 frame latency)
- Supports Video Wall, Virtual Switch & Splitter configurations
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat5e/6
- Supports audio insert (TX) & audio extract (RX)
- 1G Ethernet Switch port to connect network devices
- Supports RS232 and IR transmission for remote control
- Control via any web device (mobile, tablet) with use of model 500811 (Pro Digital Network Controller)

Specifications									
Environment	HDMI 2.0 and HDCP 2.2								
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, and media servers supporting HDMI.								
Bandwidth	594MHz								
Signals	HDMI 2.0 and DisplayPort 1.2a protocol								
Connectors	Connectors per TX and RX: One (1) HDMI receptacle. One (1) DisplayPort connector (TX only). Two (2) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (for 10GbE and 1GbE ports). Two (2) 3.5mm jacks for IR emitter and IR sensor. One (1) 3.5mm jacks for audio insertion/extraction (insert on TX, and extract on RX). One (1) 4-pin terminal block connector for RS232. One (1) 2.1mm power jack (for DC power). <i>Note: Cables not included.</i>								
Maximum Distance	Cat5e/6: 330ft (100m) up to 4K @ 60Hz <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>								
Latency	No Compression (Zero Latency) up to 4K/60 (4:2:0), and less than one Frame (16ms) @ 4K/60 (4:4:4)								
Compression	Uncompressed up to 4K/60 (4:2:0), and light compression for 4K/60 (4:4:4) only								
Network Bandwidth	< 10Gbps								
Network Requirement	10Gig Network XFI, IEEE 802.3								
IR Frequency	38 to 56KHz								
RJ45 Pin Configuration	<p>RJ45 Link</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Pin 1 (R)</td> <td style="width: 50%;">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 568B straight-through wiring.</i></p> <div style="display: flex; justify-content: space-around; align-items: center;"> </div>	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)								
Cable	One (1) Cat 5e/6 or better twisted pair cables required								
Power Source	Input: 100-240V/1.5A (max) @ 50-60Hz Output: 12DC @ 3A Includes appropriate power cord for region (US, UK or Euro)								
Power Consumption	Transmitter: 13.32Watt Receiver: 15.96Watt								
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing								
Dimensions	8.25" x 16.14" x 1.37" (21cm x 14cm x 3.5cm)								
Weight	4.06lbs (1.85kg)								
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0								
Warranty	3 years								
Order Information	500760-TX-US AV over IP 4K/60 Uncompressed Transmitter, UTP, US (UPC: 627699907603) 500760-RX-US AV over IP 4K/60 Uncompressed Receiver, UTP, US (UPC: 627699807606) 500760-TX-UK AV over IP 4K/60 Uncompressed Transmitter, UTP, UK (UPC: 627699917602) 500760-RX-UK AV over IP 4K/60 Uncompressed Receiver, UTP, UK (UPC: 627699817605) 500760-TX-EU AV over IP 4K/60 Uncompressed Transmitter, UTP, EU (UPC: 627699927601) 500760-RX-EU AV over IP 4K/60 Uncompressed Receiver, UTP, EU (UPC: 627699827604)								

Typical Application

