

Overview:

The AV over IP 4K/60 Uncompressed Extender, Fiber allows HDMI 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 (500761-TX) and Receiver (500761-RX) can be connected via OM3 multimode fiber cable with dual LC connectors up to 985ft (300m) from a 10Gig Ethernet Switch.

The units come with a power supply, an IR Sensor (for TX) and an IR Emitter (for RX) for IR based remote control applications, and a wall mount bracket kit for securing the unit to a wall.

The MuxLab Pro Digital Network Controller (500811) is available to simplify centralized configuration and control, software updates and allows for connectivity management from MuxControl and other third party applications running on smartphones and tablets.



Key Features:

- Supports HDMI up to 4K/60 on Transmitter and Receiver
- 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 985ft (300m) over OM3 multimode fiber
- 1G Ethernet Switch port to connect network devices
- Supports RS232 and IR transmission for remote control
- Managed via Pro Digital Network Controller (500811), MuxControl Smartphone & Tablet App, and third party Apps

Specifications									
Environment	HDMI 2.0								
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, and media servers supporting HDMI.								
Bandwidth	594MHz								
Signals	HDMI 2.0 and HDCP 2.2								
Connectors	Connectors per TX and RX: One (1) HDMI receptacle. One (1) dual LC multimode fiber connector (for 10GbE port). One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (1GbE port). Two (2) 3.5mm jacks for IR emitter and IR sensor. One (1) DB9 connector for RS232. One (1) 2.1mm power jack (for DC power).								
<i>Note: Cables not included.</i>									
Maximum Distance	OM3 Multimode Fiber: 985ft (300m) up to 4K @ 60Hz								
<i>Based on a maximum length of 6.6ft (2m) of HDMI cable per end.</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								
Fiber Cable	One (1) dual LC multimode fiber cable, OM3 or better is required								
RJ45 Pin Configuration	<p>RJ45 Link</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)								
Power Source	Input: 100-240V/1.5A (max) @ 50-60Hz Output: 5DC @ 4A Includes appropriate power cord for region (US, UK or Euro)								
Power Consumption	Transmitter: 16 Watts Receiver: 16 Watts								
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing								
Dimensions	6.3" x 4.8" x 1.0" (160mm x 122mm x 25mm)								
Weight	1.38lbs (0.63kg)								
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0								
Warranty	3 years								
Order Information	500761-TX-US AV over IP 4K/60 Uncompressed Transmitter, Fiber, US (UPC: 627699907610) 500761-RX-US AV over IP 4K/60 Uncompressed Receiver, Fiber, US (UPC: 627699807613) 500761-TX-UK AV over IP 4K/60 Uncompressed Transmitter, Fiber, UK (UPC: 627699917619) 500761-RX-UK AV over IP 4K/60 Uncompressed Receiver, Fiber, UK (UPC: 627699817612) 500761-TX-EU AV over IP 4K/60 Uncompressed Transmitter, Fiber, EU (UPC: 627699927618) 500761-RX-EU AV over IP 4K/60 Uncompressed Receiver, Fiber, EU (UPC: 627699827611)								

Typical Application

