

### Overview:

The HDMI over IP Uncompressed Extender, 4K/60 allows HDMI source equipment supporting up to 4K (3840x2160) resolution @ 60Hz to be connected via Cat6a/7 cable up to 330ft (100m) from a 10G Ethernet Switch, in point-to-point, point-to-multipoint and multipoint-to-multipoint configurations.

The Transmitter and Receiver, also each support a 1G Ethernet Switch port to connect additional network devices, plus a directional IR port and RS232 port for remote control of end devices.

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



### Applications:

- Commercial and residential AV systems
- Classroom projector systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

### Key Features:

- Supports HDMI up to 4K/60 (4:2:0) between Transmitter and Receiver
- Uncompressed video up to 4K/60 (4:2:0) (zero latency)
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat6a/7
- Supports a 10G Ethernet port for communications and a 1G Switch port for additional network devices
- RS232 and directional IR transmission for remote control of end devices
- Managed via Pro Digital Network Controller (500811), MuxLab Control App via smartphones and tablets, and 3<sup>rd</sup> Party control Apps

Specifications									
<b>Environment</b>	HDMI 2.0b and HDCP 2.2								
<b>Devices</b>	Blu-Ray, projectors, monitors, TV, PC, laptops, and media servers supporting HDMI.								
<b>Bandwidth</b>	297MHz								
<b>Signals</b>	HDMI 2.0b protocol, up to 4K @ 60Hz (4:2:0)								
<b>Connectors</b>	Connectors per TX and RX: One (1) HDMI receptacle. Two (2) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (for 10GbE and 1GbE ports). One (1) 3.5mm jack for IR emitter or IR sensor. One (1) 3-pin terminal block connector for RS232. One (1) 2.1mm locking power jack (for DC power).								
<i>Note: Cables not included.</i>									
<b>Maximum Distance</b>	Supports up to 4K @ 60Hz (4:2:0) at 100m over Cat 6a/7 and at 55m over Cat 6								
<i>Based on a maximum length of 6.6ft (2m) of HDMI cable per end.</i>	<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>Latency</b>	Zero Latency								
<b>Compression</b>	Uncompressed								
<b>Network Bandwidth</b>	< 10Gbps								
<b>Network Requirement</b>	10Gig Network XFI, IEEE 802.3								
<b>IR Frequency</b>	38 to 56KHz								
<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 cable required								
<b>Power Source</b>	Input: 100-240VAC @ 50-60Hz Output: 12VDC Includes multi-blades for US, UK and EU								
<b>Temperature</b>	Operating: 0° to 40°C      Storage: -20° to 85°C Humidity: Up to 95% non-condensing								
<b>Dimensions</b>	4.33" x 6.93" x 1" (11cm x 17.6cm x 2.5cm)								
<b>Weight</b>	1.16 lbs (0.53 kg)								
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0								
<b>Warranty</b>	3 years								
<b>Order Information</b>	500768-TX    HDMI over IP Uncompressed Transmitter, 4K/60    (UPC: 627699907689) 500768-RX    HDMI over IP Uncompressed Receiver, 4K/60    (UPC: 627699907682)								
<b>Accessories</b> (These items are sold separately)	500920    16-Port Rackmount Transceiver Chassis 500917    Wall Mount Transceiver Bracket Kit 500990    IR Emitter 500994    IR Sensor								

### Typical Application

