

## Overview:

The HDMI/USB over IP PoE Wall Plate Receiver, UHD-4K installs in a double-gang wall box to provide a convenient interface for HDMI display equipment and USB connectivity to manage Smart White Boards and other USB based devices. The unit has one (1) HDMI-Out, one (1) Audio-Out, two (2) USB 2.0 Type-A ports, two (2) USB 1.1 type-A ports, and one Ethernet Port. It supports video up to 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0). The HDMI/USB over IP PoE Wall Plate Receiver, UHD-4K allows HDMI and USB equipment to be extended up to 330ft (100m). The unit supports an RS232 port plus a Directional IR port to manage remote devices. The device may be powered via a PoE enabled 1Gig Ethernet Switch.



## Applications:

- Commercial and residential AV systems
- K-6 and K-12 classroom AV systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

## Key Features:

- HDMI 2.0b up to 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0)
- Audio-Out capability
- Supports two (2) USB 2.0 and two (2) USB 1.1 Type-A ports
- Extend HDMI, 2CH Audio, and USB up to 330ft (100m) over Cat5e/6 cable
- HDCP 2.2 compliant
- Compatible with 500777-TX, 500759-TX, 500770-TX and 500771-TX over IP Transmitters
- RS232 and Directional IR for remote control of end-devices
- PoE powered
- Managed via Pro Digital Network Controller (500811), MuxControl App & 3<sup>rd</sup> Party Control Apps

Specifications										
<b>Environment</b>	HDMI and USB connectivity.									
<b>Devices</b>	Blu-Ray, projectors, monitors, TV, PC, laptops, servers, and Smart White Boards.									
<b>Bandwidth</b>	300MHz									
<b>Signals</b>	HDMI 2.0b (4K/30 4:4:4 & 4K/60 4:2:0), USB 2.0, CEC and HDCP 2.2.									
<b>Connectors</b>	One (1) HDMI receptacle. Two (2) USB 2.0 Type A connectors. Two (2) USB 1.1 Type A connectors. One (1) RJ45S for Ethernet connectivity. One (1) 3-Pin Phoenix connector for RS232. One (1) 3.5mm jack for Directional IR. One (1) 3.5mm jack for Audio-Out. One (1) 2.1mm jack for power (not required when PoE is available).									
<i>Note: Cables not included.</i>										
<b>Maximum Distance</b>	Cat5e/6: 330ft (100m) <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)									
<b>Compression</b>	JPG2000									
<b>Bandwidth</b>	Up to 500Mbps									
<b>Network Requirement</b>	1 Gig Ethernet with IGMP, Jumbo Frames and PoE									
<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> <td rowspan="4"> </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>	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>	6W									
<b>Temperature</b>	Operating: 0° to 40°C      Storage: -20° to 85°C Humidity: Up to 95% non-condensing									
<b>Dimensions</b>	5.03" x 4.53" x 1.66 (128mm x 115mm x 42mm)									
<b>Weight</b>	1.35 lb (0.61 kg)									
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0									
<b>Warranty</b>	3 years									
<b>Order Information</b>	500777-RX-WH    HDMI/USB over IP PoE Wall Plate Receiver, UHD-4K, WH (UPC: 627699817773)									
<b>Compatible Devices</b>	500777-TX, 500759-TX, 500770-TX and 500771-TX									
<b>Accessories</b>	500993 Universal Locking Power Supply 5VDC/2.6A US/UK/EU Blade 500990 IR Emitter, and 500991 IR Sensor									
<i>(This item is sold separately)</i>										

## Typical Application

