

### Overview:

The KVM HDMI over IP PoE Extender, 4K@60 allows HDMI & USB equipment to be connected up to 330ft (100m) over an Ethernet LAN, supports HDMI up to 4K @ 60Hz (4:4:4) via Cat5e/6 cable in multiple point-to-point and point-to-multipoint configurations. The Transmitter (500800-TX) and Receiver (500800-RX) support PoE (PD) if used with a PoE (PSE) Ethernet Switch.

The Transmitter terminates to a computer server/workstation via an HDMI & USB port, The Receiver terminates to an HDMI display and up to 4 USB devices such as a keyboard, mouse, printer, drawing pad, storage device, camera, etc., via a 4 port USB hub. A single Receiver can be switched via hotkey sequences to any Transmitter on the network, allowing a single operator to manage numerous servers/workstations, in a distributed KVM application.

### Applications:

Management of multi-server systems supporting HDMI displays in IT departments within corporations, educational institutions, CAD Design, Graphic Design, Media Servers, and Data Centers.



### Key Features:

- One operator can manage multiple servers/workstations
- Supports HDMI up to 4K @ 60Hz (4:4:4)
- Receiver side includes a 4-port USB hub, for KVM applications
- Up to 330ft (100m) over Cat5e/6
- Supports 100's of Transmitters & Receivers depending on network bandwidth
- Supports Webcam
- Supports multiple point-to-point, and point-to-multipoint applications
- Supports HDR
- Supports PoE powered
- Supports audio insert & audio output (TX), and audio extract & mic-in (RX)

Specifications	
<b>Environment</b>	HDMI 2.0
<b>Devices</b>	Computers and servers with HDMI monitor ports.
<b>Transmission</b>	Transparent to the user
<b>Bandwidth (HDMI)</b>	597MHz
<b>Signals</b>	HDMI 2.0 protocol, HDCP 1.4, HDCP 2.2
<b>HDR Color</b>	HDR10 & Dolby Vision
<b>Connectors</b>	One (1) HDMI receptacle. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm jacks for audio-in and audio-out (on TX)/audio-out and Mic-In (on RX). One (1) 3.5mm jack for directional Infrared port. One (1) DB9 for RS232 One (1) 2.1mm locking barrel jack for power One (1) or Four (4) USB Connector(s) for Host (on TX)/Client (on RX) 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 @ 60Hz (4:4:4)
<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>	Typical one (1) Frame (16ms), maximum 2 frames (33ms)
<b>Compression</b>	JPEG 2000
<b>Bandwidth</b>	Up to 850 Mbps
<b>Network Requirement</b>	1000BaseT with PoE
<b>RJ45 Pin Configuration</b>	<b>RJ45 Link</b>
<i>Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B straight-through wiring.</i>	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>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 Standard</b>	IEEE 802.3af
<b>Power Consumption</b>	Transmitter: 6 Watt Receiver: 8 Watt
<b>Temperature</b>	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
<b>Dimensions</b>	6.38" x 5.51" x 1.00" (162mm x 140mm 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>	500880-TX KVM HDMI over IP PoE Extender TX, 4K/60 (UPC: 627699908006) 500880-RX KVM HDMI over IP PoE Extender RX, 4K/60 (UPC: 627699808009)
<b>Accessories</b>	500917 Wall Mount Transceiver Bracket Kit (These items are sold separately) 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade

## Typical Application

