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

<table>
<thead>
<tr>
<th>Environment</th>
<th>HDMI 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>Computers and servers with HDMI monitor ports.</td>
</tr>
<tr>
<td>Transmission</td>
<td>Transparent to the user</td>
</tr>
<tr>
<td>Bandwidth (HDMI)</td>
<td>597MHz</td>
</tr>
<tr>
<td>Signals</td>
<td>HDMI 2.0 protocol, HDCP 1.4, HDCP 2.2</td>
</tr>
<tr>
<td>HDR Color</td>
<td>HDR 10 &amp; Dolby Vision</td>
</tr>
</tbody>
</table>

#### Connectors

- One (1) HDMI receptacle.
- One (1) RJ45 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) DIP for RS232
- One (1) 2.1mm locking barrel jack for power
- One (1) or Four (4) RS232 Connector(s) for Host (on TX)/Client (on RX)
- Four (4) DIP switches for device ID addressing...

#### Maximum Distance

Based on a maximum length of 6.6ft (2m) of HDMI cable per end.

- Cat5e/6: 330ft (100m) up to 4K @ 60Hz (4:4:4)

#### Latency

Typical one (1) Frame (16ms), maximum 2 frames (33ms)

#### Compression

JPEG 2000

#### Bandwidth

Up to 850 Mbps

#### Network Requirement

1000BaseT with PoE

#### RJ45 Pin Configuration

- **Reverse Polarity Sensitive. Use EIA/TIA 568A or 568B straight-through wiring.**
- **RJ45 Link**
  - 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

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.

#### PoE Standard

IEEE 802.3af

#### Power Consumption

Transmitter: 6 Watt
Receiver: 8 Watt

#### Temperature

Operating: 0° to 40°C
Storage: -20° to 85°C

#### Humidity

Up to 95% non-condensing

#### Dimensions

6.38” x 5.11” x 1.00” (162mm x 140mm x 25mm)

#### Weight

1.5lbs (680g)

#### Compliance

Regulatory: FCC, CE, RoHS
Flammability: 94V0

#### Warranty

3 years

#### Order Information

- 500800-TX KVM HDMI over IP PoE Extender TX, 4K/60 [UPC: 627699908006]
- 500800-RX KVM HDMI over IP PoE Extender RX, 4K/60 [UPC: 627699808009]

#### Accessories

- 500917 Wall Mount Transceiver Bracket Kit
- 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade

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Typical Application

![Typical Application Diagram](image)