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, it also allows creating a Video Wall 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.

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 allows one 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
- Configure a Video Wall array with 100’s of displays, 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

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Connectors

- One (1) HDMI receptacle.
- One (1) RJ45S for Cat 5e/6 unsheilded 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) USB 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. CaN/5e/5e/5e 330ft (100m) up to 4K @ 60Hz (4:4:4)

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.

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)

- Cable
  - One (1) Cat 5e/6 or better twisted pair cables required

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 802.3at

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

(These items are sold separately)
500923 16 Port Rackmount Transceiver Chassis 4.5U
500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade

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Typical Application