

KVM HDMI over IP PoE Extender Deluxe, 4K/30

500850



Overview

The KVM HDMI over IP PoE Extender Deluxe, 4K/30 allows HDMI & USB equipment to be connected up to 330ft (100m) over an Ethernet LAN, supports HDMI up to 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0) via Cat5e/6 cable in multiple point-to-point and point-to-multipoint configurations. The Transmitter (500850-TX) and Receiver (500850-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, etc., via a 4 port USB hub. In addition, The Transmitter features an HDMI loop out for connecting a local TV and the Receiver features an HDMI input for connecting a local video source.

Applications

- KVM /AV Systems
- Classroom training systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

Key Features

- Supports HDMI up to 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0)
- Up to 330ft (100m) over Cat5e/6
- One operator can manage multiple servers/workstations
- Receiver side includes a 4-port USB hub, for KVM applications
- HDMI loop out on TX
- HDMI local input on RX
- 100 channel selector
- Supports multiple point-to-point, and point-to-multipoint applications
- Supports PoE powered
- Supports balanced/unbalanced audio insert (TX), and balanced/unbalanced audio extract (RX)

Specification

Technical

Environment	HDMI 2.0a
HDCP Compliance	HDCP 1.4, HDCP 2.2
Bandwidth (HDMI)	297MHz
Video Resolution	Up to 4K/30Hz (4:4:4) or 4K/60Hz (4:2:0)
Compression	JPEG 2000
Maximum Distance	Cat5e/6: 330ft (100m)
Latency	Typical one (1) Frame: 16ms for 60Hz and 33ms for 30Hz
Bandwidth	Up to 500Mbps
Network Requirement	1000BaseT with PoE
HDR Color	HDR10
RS-232	Up to 115k Baud
IR	Bi-Directional

Connection

Transmitter	Input: 1 x HDMI IN [Type A, 19-pin female] 1 x Audio Input [5pin-3.81mm Phoenix jack] Outputs: 1 x HDMI Loopout [Type A, 19-pin female] 1 x HDBaseT OUT [RJ45, 8-pin connector] Controls: 1 x IR Sensor [3.5mm Stereo Mini-jack] : 1 x IR Emitter [3.5mm Stereo Mini-jack] 1 x RS-232 [3pin-3.81mm Phoenix jack] 1 x USB HOST [USB Type C]
Receiver	Inputs: 1 x HDMI IN [Type A, 19-pin female] 1 x HDBaseT IN [RJ45, 8-pin female] Outputs: 1 x HDMI OUT [Type A, 19-pin female] 1 x Audio Output [5pin-3.81mm Phoenix jack] Controls: 1 x IR Sensor [3.5mm Stereo Mini-jack] 1 x IR Emitter [3.5mm Stereo Mini-jack] 1 x RS-232 [3pin-3.81mm Phoenix jack] 4 x USB DEVICES [USB Type A]

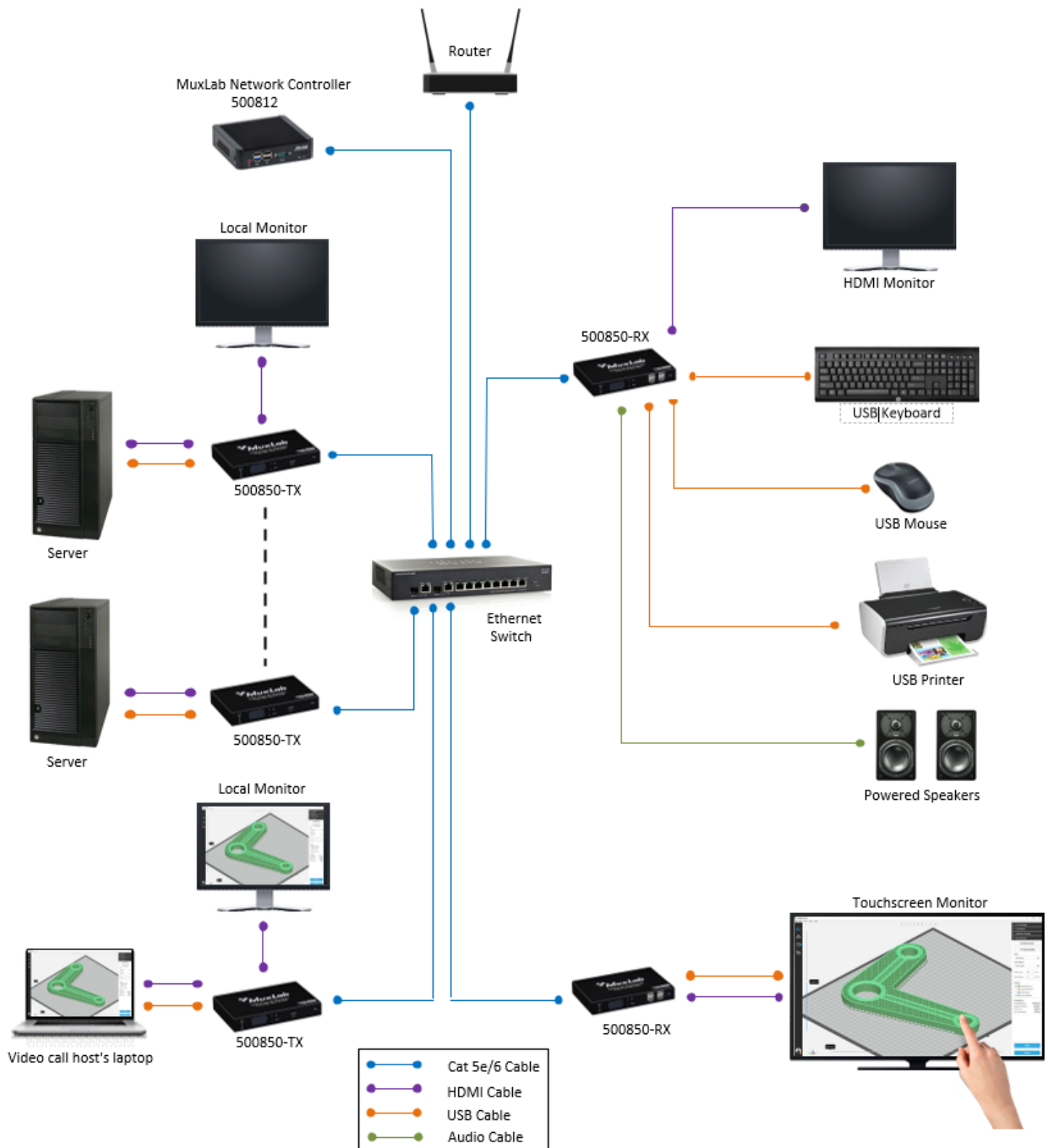
Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	Transmitter/Receiver: 163mm x 107mm x 23mm
Weight	Transmitter: 485.3g, Receiver: 494.4g
Power Consumption	Transmitter: 5 Watt Receiver: 6 Watt
PoE Standard	IEEE 802.3af
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20~90% RH (non-condensing)

Generic Specification

Compliance	Regulatory: FCC, CE, RoHS
Warranty	3 years
Order Information	500850-TX KVM HDMI over IP PoE Transmitter Deluxe, 4K/30 (UPC:627699908501) 500850-RX KVM HDMI over IP PoE Receiver Deluxe, 4K/30 (UPC:627699808504)

Diagram



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