

Overview:

The Video Wall 4K over IP PoE Extender Kit allows HDMI equipment supporting up to 4K @ 30Hz or 1080p at 60Hz resolution to be connected and extended to create 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. Each Transmitter (500759-TX) and Receiver (500759-RX) can be connected via Cat5e/6 cable up to 330ft (100m) from an Ethernet Switch.

The Transmitters and Receivers support PoE (PD) and may be powered by a PoE (PSE) Ethernet Switch. The kit comes with one (1) Transmitter and one (1) Receiver. The IR Emitter and IR Sensor, if required, may be purchased separately for IR based remote control applications.

For the point-to-multipoint and multipoint-to-multipoint configuration the Ethernet switch must have Gigabit ports, DHCP server capability, IGMP communications protocol and support Jumbo Frames. MuxLab recommends using the Cisco SG300 Series Managed Switches.

The MuxLab Pro Digital Network Controller (500811) is available to simplify configuration and control and allows for third party smartphone and tablet management.





Key Features:

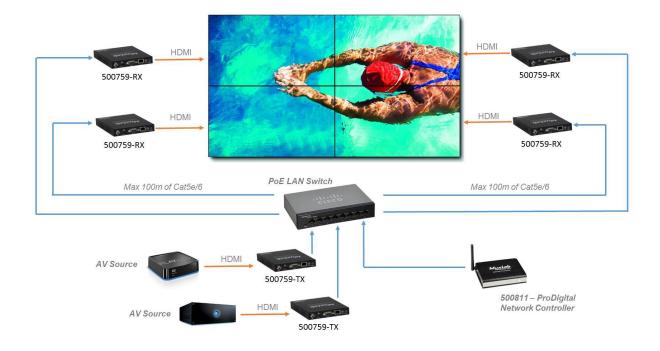
*4K UHD

- Configure a Video Wall array with 100's of displays, depending on network bandwidth
- Supports up to 4K @ 30Hz and 1080p @ 60Hz
- Visually lossless video (1 frame latency)
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat5e/6
- Supports audio insert (TX) & audio extract (RX)
- Supports RS232 and IR transmission for remote control
- PoE powered
- Control via any web device (mobile, tablet) with use of model 500811 (Pro Digital Network Controller)

Specifications	
Environment	HDMI 1.4
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, servers supporting HDMI.
Bandwidth	300MHz
Signals	HDMI 1.4 protocol
Connectors	One (1) HDMI receptacle.
	One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair.
	Two (2) 3.5mm jacks for IR emitter (on TX)/sensor (on RX). Two (2) 3.5mm jacks for audio insert (on TX)/audio extract (on RX).
	One (1) DB9 for the RS232
Note: Cables not included.	Four (4) DIP Switches for device ID addressing.
Maximum Distance	Cat5e/6: 330ft (100m) up to 4K @ 30Hz
	Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection
Based on a maximum length of 6.6ft (2m) of HDMI cable per end.	reduces the effective distance depending on the grade of twisted cable used.
Latency	Typical one (1) Frame (16ms), maximum 2 frames (33ms)
Compression	Proprietary Compression
Bandwidth	Up to 850Mbps
Network Requirement	1000BaseT with Jumbo Frame
IR Frequency	38 to 56KHz (IR Emitter and IR Sensor sold separately)
RJ45 Pin Configuration	RJ45 Link Pei 3 Pair 1 Pair 3 Pair 4 Peir 2 Pair 1 Pair 3 Pair 4
Reverse Polarity Sensitive. Use EIA/TIA	Pin 1 (R) Pin 2 (T)
568A or 586B straight-through wiring.	Pin 3 (R) Pin 6 (T)
Soon of Sood straight through while.	Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T) 12 346673 12 346673
	EA368A ELA368B
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	IEEE 802.3af
Power Consumption	Transmitter: 2.85Watt Receiver: 2.55Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C
	Humidity: Up to 95% non-condensing
Dimensions	4.40" x 5.08" x 1.00" (112mm x 129mm x 25mm)
Weight	1.5lbs (0.68kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500759 Video Wall 4K over IP PoE Extender Kit (UPC: 627699007594) 500759-TX Video Wall 4K over IP PoE Extender TX (UPC: 627699907597)
	500759-RX Video Wall 4K over IP PoE Extender RX (UPC: 627699807597)
Accessories	500/39-KA Video Wali 4K over iP Poe Extender KA (OPC. 62/69980/590)
(These items are sold separately)	500920 TO-Poir Rackinouni Transceiver Chassis
(These fields are sold separately)	500990 IR Emitter, and 500991 IR Sensor
	500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade



Typical Application





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