

## Overview:

The HDMI over IP H.264/H.265 PoE Transmitter allows HDMI source equipment to be extended locally up to 330ft (100m) at up to 4K @ 30Hz resolution via Cat5e/6 cable and is compatible with the Muxlab 500762-RX Receiver to support point-to-point, point-to-multipoint and multipoint-tomultipoint configurations, Video Wall and Multiview capabilities in a low bandwidth, flexible, expandable and cost effective manner, without the need to install dedicated cabling systems. The exceptionally low bandwidth requirements of this device combination allows for streaming audio/video content over a local network, over WiFi, and over the Internet for distributed installations spread-out throughout the globe. The transmitter accepts a 4K video @ 30Hz and streams the content to an H.264/H.265 Receiver, such as the MuxLab 500762-RX, to be displayed on a 4K monitor. The Transmitter may also send H.264/H.265 video streams to other H.264/H.265 compatible Receiving devices. The device supports PoE (PD) and may be powered by a PoE (PSE) Ethernet Switch.

## Applications:

- Audio/Video Streaming over LAN, Wifi and Internet
- · Commercial and residential AV systems
- · Classroom projector systems
- Digital signage
- · Boardroom systems
- · Medical information systems





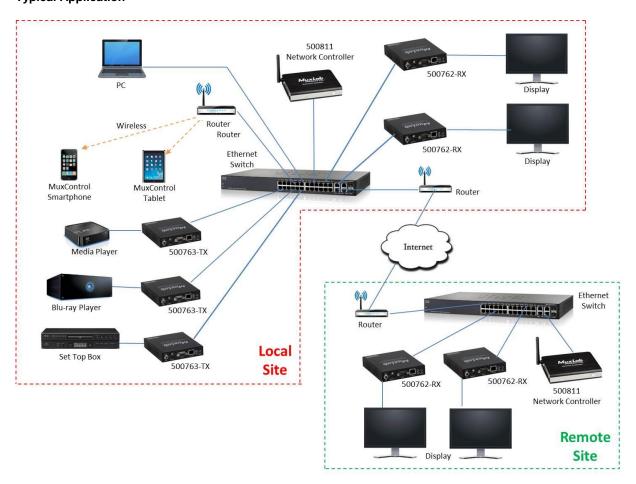
## **Key Features:**

- Supports up to 4K @ 30Hz video
- Works with the 500762-RX Receiver to support Matrix connectivity, Video Wall and Multiview capabilities
- Extends local audio/video transmission up to 330ft (100m) over Cat5e/6
- H.264/265 video codec, excellent for LAN, WiFi & Internet transmission
- $\bullet\,$  High image quality and <200ms latency in low latency mode with H.265
- Supports 100's of TX & RX devices depending on network bandwidth
- Supports Multicast, RTSP, RTMP, HLS, FLV and TS
- Supports embedding of 2CH audio
- RS232 and Directional IR for remote control of end-devices
- PoE powered, via PoE (PSE) Ethernet Switch
- Managed via Pro Digital Network Controller (500811), MuxControl Smartphone & Tablet App, and third party Apps

Specifications	
Environment	HDMI 1.4
Devices	Blu-Ray, Set Top Boxes, Media Players/Streamers, projectors, monitors, TVs, PCs, supporting HDMI.
Signal Protocal/Standard	HDMI 1.4 and HDCP 1.4
Video Bandwidth	300MHz
Network Bandwidth	40Mbps (max)
Latency	<200ms (in low latency mode with H.265)
Protocols	Supports Multicast, RTSP, RTMP (H.264), HLS, FLV (H.264) & TS
Connectors	One (1) HDMI connector for AV input. One (1) RJ45S for Ethernet connection. One (1) 3.5mm connector for audio embedding. One (1) 3.5mm connector for directional IR (direction controllable via software). One (1) RS232 DB9 connector for controlling end devices. One (1) Mini USB connector for firmware updates (can also update firmware via 500811 controller). One (1) 2.1mm locking power connector.
Maximum Distance	Cat5e/6: 330ft (100m) from Ethernet Switch. Unlimited over the Internet  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.
RJ45 Pin Configuration  Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B 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	IEEE 802.3af
Power Consumption	4.5W
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.4" x 4.4" x 1.0" (111mm x 111mm x 25mm)
Weight	0.9lbs (0.4kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500763-TX HDMI over IP H.264/H.265 PoE Transmitter, 4K/30 (UPC: 627699907634)
Accessories	500920 16-Port Rackmount Transceiver Chassis
(These items are sold separately)	500917 Wall Mount Transceiver Bracket Kit 500990 IR Emitter, and 500994 IR Sensor 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade



## **Typical Application**





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