# HDMI over IP H.264/H.265 PoE Transmitter, 4K/60

500764-TX-V2

HDMI · 4K60 ULTRA HD · PoE · Audio

## Overview

The HDMI over IP H.264/H.265 PoE Transmitter, 4K/60 (Model: 500764-TX-V2) allows HDMI source equipment to be extended locally up to 330ft (100m) at up to 4K @ 60Hz resolution via Cat5e/6 cable and is compatible with the Muxlab 500762-RX-V2 Receiver to support point-to-point, point-to-multipoint and multipoint-to-multipoint configurations, Video Wall and Multiview capabilities in a low bandwidth expandable and cost effective manner, without the need to install dedicated cabling systems. The exceptionally low bandwidth requirements of this device in the H.264/H.265 video codec setting allows for streaming audio/video content over a local network. The unit also supports a MotionJPG (MJPG) video codec setting for low latency applications. The transmitter accepts a 4K video @ 60Hz and streams the content to an H.264/H.265 Receiver, such as the MuxLab 500762-RX-V2, 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.
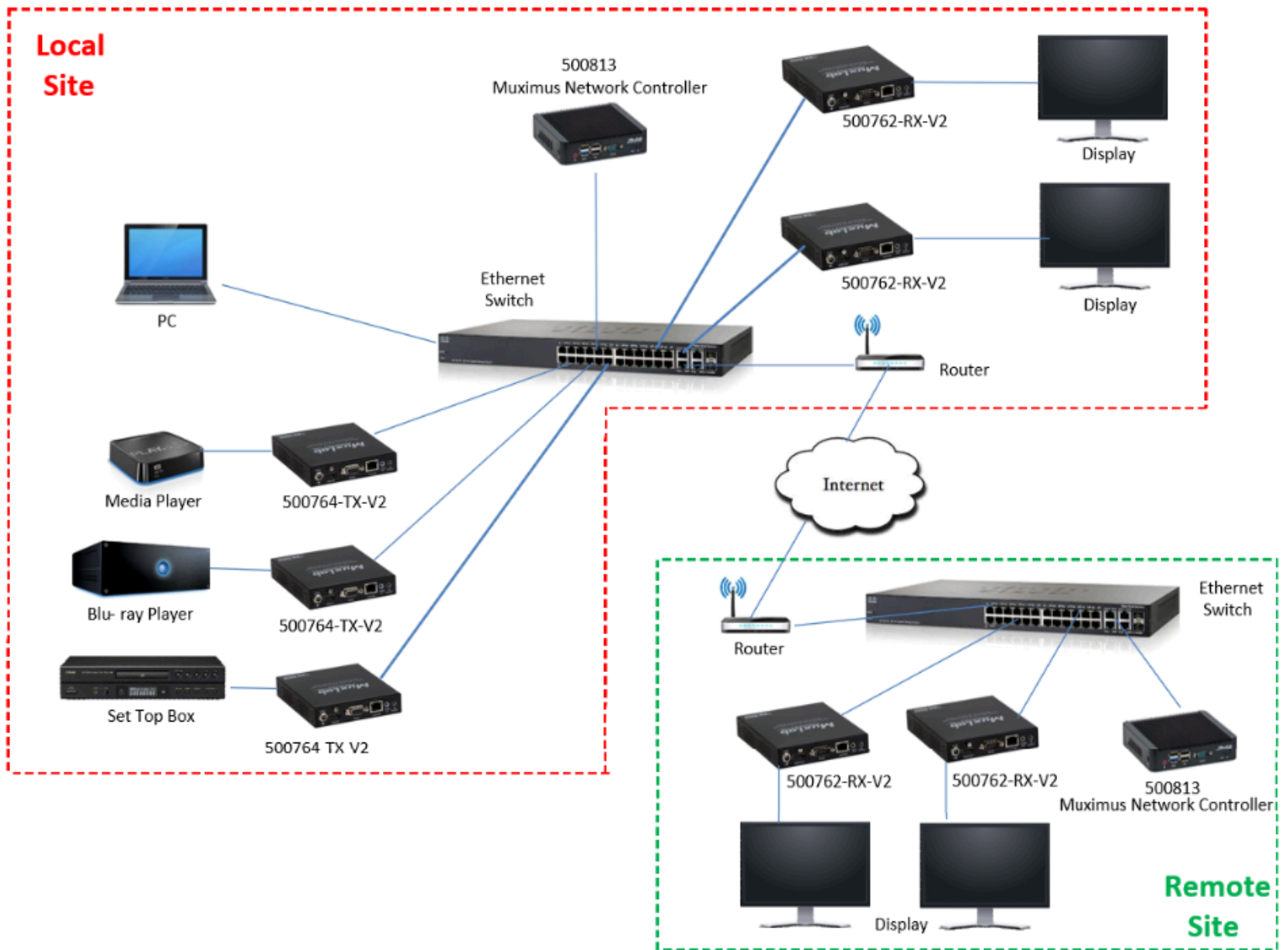
## Applications

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

## Key Features

- Supports up to 4K @ 60Hz video resolution
- Extends local audio/video transmission up to 330ft (100m) over Cat5e/6
- H.264/265 video codec, excellent for LAN and Internet transmission
- High image quality and 200ms latency in low latency mode with H.265
- Supports Multicast, RTSP, RTMP, HLS, FLV, and TS
- PoE powered, via PoE (PSE) Ethernet Switch
- Compatible with the MuxLab 500762-RX-V2 Receiver to support Matrix connectivity, Video Wall and Multiview capabilities
- Managed via Pro Digital Network Controller (500812) and Muximus Network Controller (500813)

## Specifications

| | |
|---|---|
| **Environment** | HDMI 2.0, resolution of up to 4K/60 (4:4:4) |
| **Devices** | Blu-Ray, Set Top Boxes, Media Players/Streamers, monitors, TVs, supporting HDMI. |
| **Signal Protocol/Standard** | HDMI 2.0 and HDCP 2.2 |
| **Video Bandwidth** | 594MHz |
| **Network Bandwidth** | 32Kbps to 60Mbps for H.264/H.265, and 32Kbps to 200Mbps for MJPG. |
| **Latency** | 200ms (in low latency mode with H.265) |
| **Protocols** | Supports Multicast, RTSP, RTMP (H.264), HLS, FLV (H.264) & TS |
| **Connectors** | Two (2) HDMI connectors for AV input and AV Loop-out.<br>One (1) RJ45S for Ethernet connection.<br>Two (2) 3.5mm connectors for 2CH audio embedding and loop-out.<br>One (1) 3.5mm connector for directional IR (direction controllable via software).<br>One (1) RS232 3-Pin Phoenix connector for controlling end devices.<br>One (1) 2.1mm locking power connector. |
| **Maximum Distance** | Cat5e/6: 330ft (100m) from Ethernet Switch. Unlimited over the Internet<br>**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. |
| **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** | 7.8W |
| **Temperature** | Operating: 0° to 40°C                 Storage: -20° to 85°C<br>Humidity: Up to 95% non-condensing |
| **Unit Dimensions** | 6.1" x 4.4" x 1.0" (154mm x 111mm x 25mm) |
| **Shipping Weight** | 1.1lbs (0.5kg) |
| **Compliance** | Regulatory: FCC, CE, RoHS          Flammability: 94V0 |
| **Warranty** | 3 years |
| **Order Information** | 500764-TX-V2 HDMI over IP H.264/H.265 PoE Transmitter, 4K60 (UPC: 627699917640) |
| **Accessories**<br>(These items are sold separately) | 500920  16-Port Rackmount Transceiver Chassis<br>500917   Wall Mount Transceiver Bracket Kit<br>500990  IR Emitter, and 500994 IR Sensor<br>500993  Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade |

# Typical Application



**Local Site**

- PC
- Media Player
- 500764-TX-V2
- Blu-ray Player
- 500764-TX-V2
- Set Top Box
- 500764 TX V2
- Ethernet Switch
- 500813 Muximus Network Controller
- 500762-RX-V2 — Display
- 500762-RX-V2 — Display
- Router

**Internet**

**Remote Site**

- Router
- Ethernet Switch
- 500762-RX-V2 — Display
- 500762-RX-V2 — Display
- 500813 Muximus Network Controller