

TEKVOX
TPUH460 HDMI
1.4 Extender with
Ethernet



TEKVOX TPUH460 HDMI 1.4 Extender with Ethernet User Manual

[Home](#) » [TEKVOX](#) » TEKVOX TPUH460 HDMI 1.4 Extender with Ethernet User Manual 

Contents

- [1 TEKVOX TPUH460 HDMI 1.4 Extender with Ethernet](#)
- [2 Specifications](#)
- [3 Safety Precautions](#)
- [4 Panel Description](#)
- [5 Specifications](#)
- [6 Frequently Asked Questions](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)

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TEKVOX TPUH460 HDMI 1.4 Extender with Ethernet



- www.tekvox.com

Specifications

- **Product Name:** TPUH460
- **Model Number:** 79086-S
- **Brand:** TEK TPUH460
- **Description:** HDMI 1.4 Extender with Ethernet & RS-232
- **Version:** TPUH460S_2025V1.2
- **Website:** www.tekvox.com

Safety Precautions

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully, and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock, and injury to persons
- Do not dismantle the housing or modify the module (electrical shock or burn hazard)
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction
- Refer all servicing to qualified service personnel
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water
- Do not put any heavy items on the product's power cable
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards
- Install the device in a place with sufficient ventilation to avoid damage caused by overheating
- Keep the module away from liquids
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills onto the housing, unplug the module immediately.
- Do not twist or pull by force the ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time
- Information on disposal for scrapped devices: do not burn or mix with general household waste; please treat them as normal electrical wastes

Product Introduction

The HDMI 1.4 Extender consists of a transmitter and a receiver. It can extend 4K or 1080p video to distance up to 328 feet (100 meters) over a single CAT6a cable. It supports bi-directional RS-232 pass-through control and Ethernet extension. 36V PoC feature allows the transmitter can be powered by the receiver and only one power adapter is needed in system.

Features

- Supports HDMI 1.4 and the HDMI video resolution up to 4K@60Hz 4:2:0
- Supports HDCP bypass and is HDCP 2.2 compliant
- Extends 4K or 1080p video signals to distances up to 328 feet (100 meters) over a single CAT6a cable
- Bi-directional RS-232 pass-through control and Ethernet extension
- Provides up to 30W power for 3rd party device (e.g. HD Camera) on transmitter
- Supports 36V PoC, which allows the transmitter to be powered by the receiver

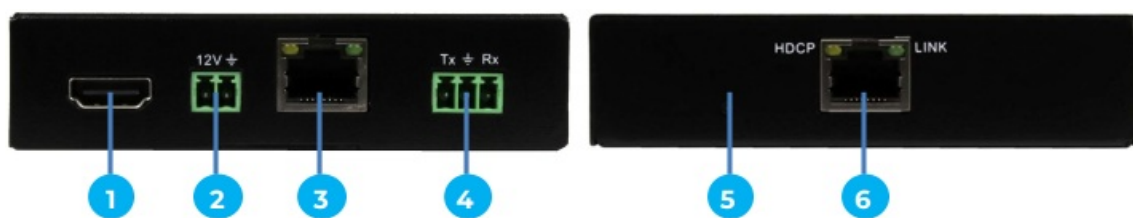
Package List

- 1x Transmitter
- 2x TX Mounting Ears with 2x screws
- 4x TX plastic cushions
- 1x RS-232 Cable (3-pin to 8-pin Mini-DIN)
- 2x 3-pin terminal blocks
- 1x Power Adapter (DC 24V, 2.71A)
- 1x Power Cord (2-pin to 5.5×3.0mm jack)
- 1x Receiver
- 2x RX Mounting Ears with 2x screws
- 4x RX plastic cushions
- 1x RS-232 Cable (3-pin to DB-9)
- 1x 2-pin terminal block
- 1x Power Cord
- 1x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.

Panel Description

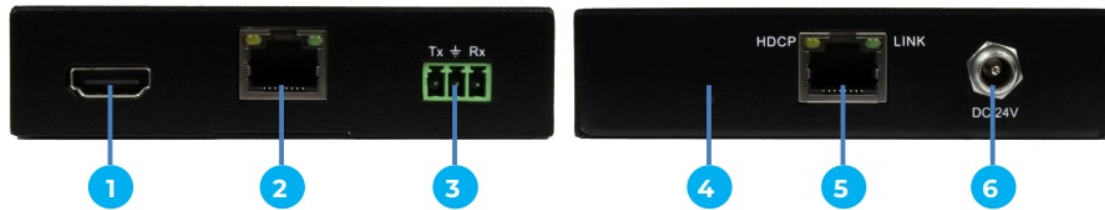
Transmitter



1. HDMI IN: Connects to HDMI source device
2. CAM 12V: Provides 12V, 2.5A power for source device (e.g. camera)
3. Ethernet: Used for Ethernet extension together with the Ethernet port of the receiver. If one Ethernet port is connected to a router, the other is able to access the LAN network
4. RS-232: Connects to the source device (e.g. camera) to be controlled by a far-end control device, or connects a control device (e.g. PC) control a far-end display device (e.g. projector)
5. Power LED: Illuminates green when power is applied
6. HDBaseT Out: The RJ45 port is connected to the HDBaseT Input port of the receiver by a CAT6a cable. The LINK LED illuminates when there is a valid HDBaseT link between the transmitter and receiver. The HDCP LED

illuminates when the video contains HDCP content, or blinks when the video is transmitted without HDCP content.

Receiver



1. HDMI Out: Connects to HDMI display device (e.g., projector)
2. Ethernet: Used for Ethernet extension together with the Ethernet port of the transmitter. If one Ethernet port is connected to a router, the other is able to access the LAN network
3. RS-232: Connects the display device (e.g, projector) to be controlled by a far-end control device or connects a control device (e.g.,PC) to control a farend source device (e.g,. camera)
4. Power LED: Illuminates green when power is applied
5. HDBaseT In: The RJ45 port is connected to the HDBaseT output port of the transmitter by a CAT6a Ethernet cable. The LINK LED illuminates when there is a valid HDBaseT link between the transmitter and receiver. The HDCP LED illuminates when the video contains HDCP content or blinks when the video is transmitted without HDCP content.
6. DC 24V: DC Connector for the power adapter connection.

Specifications

Transmitter	
Input	HDMI IN (19-pin type-A female HDMI)
Output	HDBaseT OUT (RJ45)
Control	ETHERNET (RJ45), RS-232 (3-pin terminal block)
Power Output	CAM 12V (2-pin terminal block)
Receiver	
Input	HDBaseT IN (RJ45)
Output	HDMI OUT (19-pin type-A female HDMI)
Control	ETHERNET (RJ45) RS-232 (3-pin terminal block)
General	
Video Resolution	Up to 4K@60Hz 4:2:0
Transmission Distance	4K/1080p ≤ 328 feet (100m)
HDMI Version	1.4
HDCP Version	Up to 2.2, bypass
EDID	Bypass
Power Supply	Input: 100 to 240V AC, 50/60Hz Output: DC 24V, 2.71A
Maximum Power Consumption	62W
Operation Temperature	23 ~ 131°F (-5 ~ 55°C)
Storage Temperature	-13 ~ 158°F (-25 ~ 70°C)
Relative Humidity	10% ~ 90%, Non-condensing
Dimensions (W*H*D)	3.94" (100mm) x 0.94" (24mm) x 6.29" (160mm)
Net Weight	TX: 0.82 lbs. (370g) RX: 0.84 lbs. (380g)

- www.tekvox.com

Frequently Asked Questions

Q: What is the maximum distance supported by the HDMI extender?

A: The HDMI extender can support distances up to 328 feet (100 meters) over a single CAT6a cable.

Documents / Resources



[TEKVOX TPUH460 HDMI 1.4 Extender with Ethernet](#) [pdf] User Manual
TPUH460, 79086-S, TPUH460 HDMI 1.4 Extender with Ethernet, TPUH460, HDMI 1.4 Extender with Ethernet, Extender with Ethernet, with Ethernet

References

- [User Manual](#)

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