

# User Manual

## WOXCON TPUH430

HDMI 1.4 Extender with Ethernet and RS232



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Version: TPUH430\_2020V1.0

## Product Introduction

Thanks for choosing the HDMI 1.4 Extender, which 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 CATx cable. It supports bi-directional RS232 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 HDCP 2.2 compliant.
- Extends 4K or 1080p video signals to distances up to 328 feet (100 meters) over a single CATx cable.
- Bi-directional RS232 pass-through control and Ethernet extension.
- Provides up to 30W power for 3rd party device (e.g. HD Camera) on transmitter.
- Cascaded to switcher or matrix by HDMI output of receiver.
- Supports video source input for real-time HD monitoring.
- Supports 36V PoC, the transmitter can be powered by the receiver.

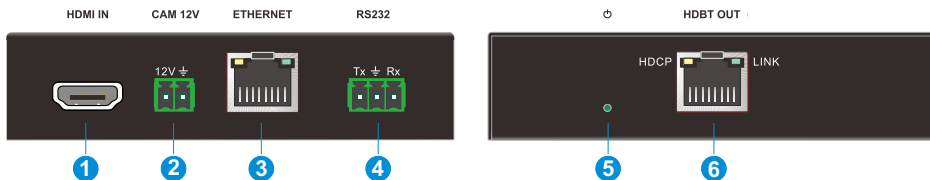
## Packing List

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| • 1x Transmitter                    | • 1x Receiver                       |
| • 2x TX Mounting Ears with 2 Screws | • 2x RX Mounting Ears with 2 Screws |
| • 4x TX Plastic Cushions            | • 4x RX Plastic Cushions            |
| • 2x 3-pin Terminal Blocks          | • 1x RS232 Cable (3-pin to DB9)     |
| • 1x User Manual                    | • 1x 2-pin Terminal Blocks          |
| • 1x Power Adapter (24V DC 2.71A)   | • 1x Power Cord                     |

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

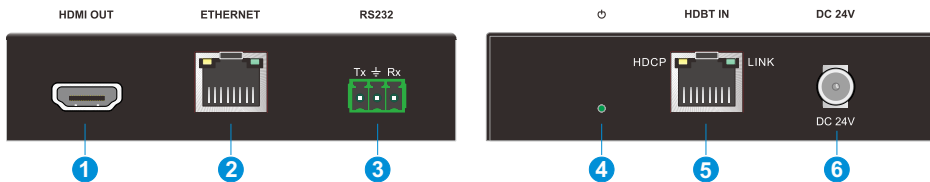
# Panel Description

## 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 receiver. If one ETHERNET port is connected to a router, the other is able to access LAN.
4. **RS232**: Connects to the source device (e.g. Camera) to be controlled by far-end control device, or connects a control device (e.g. PC) to control far-end display device (e.g. Projector).
5. **POWER LED**: Illuminates green when power is applied.
6. **HDBT OUT**: RJ45 port to connect the HDBT input port of receiver by CATx Ethernet cable. The LINK LED illuminates when there is a valid HDBaseT link between the transmitter and the receiver. The HDCP LED illuminates when the video contains HDCP content, or blinks when the video is transmitted without HDCP.

## Receiver



- 1. HDMI OUT:** Connects to HDMI display device.
- 2. ETHERNET:** Used for Ethernet extension together with the ETHERNET port of transmitter. If one ETHERNET port is connected to a router, the other is able to access LAN.
- 3. RS232:** Connects the display device (e.g. Projector) to be controlled by far-end control device, or connects a control device (e.g. PC) to control far-end source device (e.g. Camera).
- 4. POWER LED:** Illuminates green when power is applied.
- 5. HDBT IN:** RJ45 port to connect the HDBT output port of transmitter by CATx Ethernet cable. The LINK LED illuminates when there is a valid HDBaseT link between the transmitter and the receiver. The HDCP LED illuminates when the video contains HDCP content, or blinks when the video is transmitted without HDCP.
- 6. DC 24V:** DC connector for the power adapter connection.

## Technical Specification

<b>Transmitter</b>	
Input	(1) HDMI IN
Input Connector	(1) 19-pin type-A female HDMI
Output	(1) HDBT OUT
Output Connector	(1) RJ45
Control	(1) ETHERNET, (1) RS232
Control Connector	(1) RJ45, (1) 3-pin terminal block
Power Output	(1) CAM 12V (2-pin terminal block)
<b>Receiver</b>	
Input	(1) HDBT IN
Input Connector	(1) RJ45
Output	(1) HDMI OUT
Output Connector	(1) 19-pin type-A female HDMI
Control	(1) ETHERNET, (1) RS232
Control Connector	(1) RJ45, (1) 3-pin terminal block
<b>General</b>	
Video Resolution	Up to 4K@60Hz 4:2:0
Transmission Distance	4K/1080p ≤ 100 meters (328ft)
HDMI Version	1.4
HDCP Version	Up to 2.2, bypass
EDID	Bypass
Power Supply	Input: 100 to 240V AC, 50/60Hz; Output: 24V DC 2.71A
Max Power Consumption	62W
Operation Temperature	-5 to +55°C (+23° to +131°F)
Storage Temperature	-25 to +70°C (-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimensions (W*H*D)	100mm x 24mm x 160mm
Net Weight	Tx: 370g; Rx: 380g

# System Connection

