

HDMI over HDBaseT Extender

User Manual

Model : HE02EIP 4K HDMI & IR/PoH CAT5e Extender 70M



Introduction

HE02EIP is a 4K HDMI over HDBaseT™ extender that can use an Ethernet cable to send uncompressed HDMI and IR signals with resolution up to 4K@60Hz 4:2:0 and transmission distance up to 70M. The extender also supports PoH (Power over HDBaseT), designed to provide power from one side (TX/RX) to another.

Features

- Resolution up to 4K@60Hz 4:2:0.
- Signal extension up to 70M over one CAT5e/6 cable.
- Supports PoH (Power over HDBaseT™), no power required for RX unit.
- Supports bi-directional IR transmission, EDID and CEC pass through.

Installation view



LED Indication

Power: Green ON/OFF

HDMI:

Blue ON: With HDMI signal

Flash: HDMI signal without HDCP

OFF: No HDMI signal

HDBaseT:

Blue ON: HDBaseT link

Flash: Low power mode
OFF: HDBaseT unlink

IR receive/emit LED:

Blue Flash: IR signal transmission

OFF: No IR signal

Cable

Link cable recommend use high quality Cat.5e 、Cat.6 、Cat.6a 、Cat.7 UTP / STP or FTP cable. Poor quality cable or network connection or improper construction will cause unstable connection, video or sound disruptions, picture noise appears.

HDBaseT Distance Chart by Different Cable

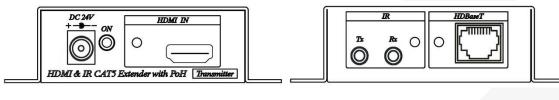
| Cable Type | Range | Pixel Clock Rate | Video Data Rate | Supported Video |
|----------------|-------|------------------|---------------------------|-------------------------------|
| CAT.5e / CAT.6 | 70 M | ≤ 225MHz | ≤ 5.3Gbps(Full HD Video) | 1080p 60Hz 36 bit |
| CAT.5e / CAT.6 | 35 M | > 225MHz | > 5.3Gbps(Ultra HD Video) | 1080p 60Hz 48 bit |
| CAT.6a / CAT.7 | 40 M | | | 1080p 60Hz 3D 4K x 2K 24Hz |

If connection through the wall socket, the cable length must less 5 meters between HDMI extender and wall jack, as below drawing:

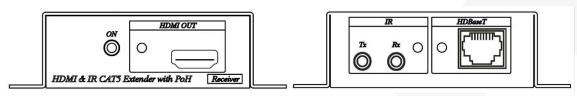


Panel View





HE02EIPR



Low-power Mode

When there is no HDMI video signal input or TV is not connected or power off, this product will enter a low-power mode to save power consumption; under a low power mode still provides IR and CEC of signal transmission.

RJ45 Define

Video Link (TIA/EIA-568-B) 1. Orange-white DATA0 + 2. Orange DATA0 -3. Green-white DATA1+ 4. Blue DATA2+ 5. Blue-white DATA2-6. Green DATA1-7. Brown-white DATA3+ 8. Brown DATA3 -

Caution

- 1. The wiring must away from any equipment with electromagnetic wave, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, high voltage power lines.
- 2. The cable must pull in straight to avoid any crosstalk interference and the transmission stability.
- 3. This device HDBaseT port is not general Ethernet signal; do not connect with Network devices to avoid damage.
- 4. IR transmitter do not put near from receiver to avoid mutual interference.
- 5. The receiver unit working temperature is higher which is in normal condition.

HE02EIP Package Include

HE02EIPT HDM Transmitter x 1 pcs
HE02EIPR HDMI Receiver x 1 pcs
IR Emitter Cable x 2 pcs
IR Receiver Cable x 2 pcs
Mounting Screw pack x 1 bags
DC12V 1Amp Power Adapter x 1 pcs

Specification

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|----------------------------|---|------------------------------------|--|--|--|
| ITEM NO. | HE02EIPT | HE02EIPR | | | |
| Support | | | | | |
| Compliance | HDMI 1.4, HDCP, 3D | | | | |
| Max. Video Resolution | 4K@24Hz | | | | |
| Max. Transmission Distance | 70M at 1080p, 40M at 4K | | | | |
| Video Bandwidth | 10.2 Gbps | | | | |
| Audio Format | LPCM 7.1 192KHz, Dolby Trued, DTS-HD MA | | | | |
| IR Support | 30-60Khz, ±15°, 5M, Bi-directional | 30-60Khz, ±55°, 5M, Bi-directional | | | |
| Ports & Interfaces | | | | | |
| Video Input | 1 x HDMI Type A | 1 x HDBaseT | | | |
| Video Output | 1 x HDBaseT | 1 x HDMI Type A | | | |
| Power | | | | | |
| Power Supply | DC 24V 1.25A | | | | |
| Power Consumption | 11.4W (Max), 1.8W(Low Power) | | | | |
| Ambient Temperature | | | | | |
| Operation | 0 to 55℃ | | | | |
| Storage | -20 to 85℃ | | | | |
| Humidity | up to 95% | | | | |
| Physical Characteristics | | | | | |
| Dimensions | 67 x 95 x 27mm | 67 x 95 x 27mm | | | |
| Weight | 155g | 165g | | | |



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