

Technical Specifications

TL-TP70-HDC

Features at a Glance

- EDID pass through
- HDCP2.2 compliant
- 4K over Cat.5e/6 up to 40m
- 1080p over Cat 5e/6 up to 70m
- Bi-directional IR, RS232



The TL-TP70-HDC is an ultra-thin extender set consisting of a transmitter (TL-TP70-HDC-T) and a receiver (TL-TP70-HDC-R). Using HDBaseT technology, the set transmits an HDMI signal to the receiver up to 70m distance via a Cat5e/Cat6A cable. Featuring bi-directional IR and RS232, you can control your display or source using included accessories. With bi-directional PoE power, you only need to connect the power supply on one end.

Specifications

| I/O Connections | |
|-----------------------------|---|
| HDMI | HDMI Type A Receptacle |
| Twisted Pair | 8P8C port (Shielded RJ45) |
| IR Input | 3.5mm TRS Jack |
| IR Output | 3.5mm TS Jack |
| RS232 | 3pin phoenix socket |
| 24V DC Power | 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel (Locking) |
| Supported Video and Audio | |
| Maximum Video Compatibility | 70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0 |
| Video Compliance | HDMI, HDCP 2.2, and CEC (Consumer Electronics Control) |
| Embedded Audio | Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio |
| Input DDC Signal | 5.0 volts p-p (TTL) |
| Input Video Signal | 0.5 to 1.0 volts p-p |
| IR Carrier Frequency Range | 33-55kHz at 5 volts |

| HDBaseT Signal Characteristics | |
|---------------------------------------|--|
| Maximum Distance | 70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0 |
| Cable Requirements | Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern |
| Bandwidth | 10.2 Gbps |
| Chassis and Environmental | |
| Enclosure | Painted aluminum |
| Dimensions | 115mm x 84mm x 16mm |
| Shipping Weight | 0.71Kg (1.55 lbs) (Tx+Rx) |
| Operating Temperature (Environment) | -10° to +40° C |
| Operating Temperature (Chassis) | 45° C |
| Operating Humidity (Environment) | 10% ~ 90% |
| Storage Temperature (Environment) | -15° to +70° C |
| Storage Humidity (Environment) | 0%~55% |
| Power, ESD, Regulatory | |
| Maximum Power Consumption | 4.4W(TX), 6.7W(RX) |
| Power Supply | 24V DC |
| ESD Protection | 15KV |
| Regulatory | HDBaseT, CE, FCC |
| Other | |
| Standard Warranty | 1 Year |
| Diagnostic Indicators | Power, Link, and HDCP LEDs |
| Included Items | Installation Guide, power supply, US power cord, mounting "L" brackets (4 ea), mounting screws (4 ea) , IR Transmitter, IR Receiver |

Dimensional Drawings



