Technical Specifications

TL-TP70-HDARC

Features at a Glance

- HDMI 1.4 supported
- 4K 40m, 1080p 70m transmission
- HDCP 2.2 compliant
- Bidirectional PoE (power from either the TX or the RX)
- ARC supported

The TL-TP70-HDARC is an ultra thin design extender set consisting of a transmitter and a receiver. The set transmits a 1080p signal to the receiver up to 70m via a shielded Cat5e/Cat6 cable.   Bi-directional IR communication is included to allow control of an IR source or display. Bidirectional PoE power allows you to connect the power supply at either the transmitter or the receiver to power both units. The set also supports ARC, which enables audio up streaming from display to an audio system using either HDMI or the coax digital output.

Specifications

I/O Connections	
HDMI	1 HDMI type A connector
TP	1 RJ45 connector
IR in	1 3.5mm stereo jack
IR out	1 3.5mm mono jack
ARC audio	1 coaxial RCA connector in transmitter
Power	1 DC 24V connector with locking screw
Supported Audio and Video	
Maximum Video Compatibility	70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, 4k x 2k (UHD) 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2, 60 Hz: YCbCr 4:2:0
Video Compliance	HDMI 1.4, HDCP 2.2
ARC audio	PCM on HDMI (input) or Coax digital output
IR Carrier Frequency Range	33-55kHz at 5 volts
Input Video Signal	0.5-1.0 Vpp
Twisted Pair Signal Characteristics	
Maximum Distance	70m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps

Gain	0 dB – 10 dB at 100 MHz

Chassis and Environmental

Enclosure	Painted aluminum
Dimensions	115*16.2*114 mm
Shipping Weight	280g (Tx+Rx)
Operating Temperature (Environment)	0~50℃
Operating Humidity (Environment)	10%-90%

Power, ESD, and Regulatory

Maximum Power Consumption	0.5W
Power Supply	DC 24V
ESD Protection	15kV
Regulatory	CE, FCC

Other

Standard Warranty	3 Years
Diagnostic Indicators	Power, link, HDCP
Included Items	Mounting ears, Screws, Plastic cushions, Power Adapter, IR receiver, IR emitter

Dimensional Drawings

Receiver

Transmitter

TX

Link   HDCP   ☀

16.20 mm

115.00 mm

114.00 mm

TL-TP70-HDARC

ARC   IR In   IR Out   HDMI In   TP Out   DC 24v

ARC Mode