TechLogix Networx

Technical Specifications

TL-TP100-HDC

Features at a Glance

- EDID pass through
- HDCP2.2 compliant
- 4K over Cat 5e/6 up to 100m
- 1080p over Cat 5e/6 up to 100m
- Bi-directional IR, RS232, and 10/100 Ethernet

The TL-TP100-HDC is an ultra-thin extender set consisting of a transmitter (TL-TP100-HDC-T) and a receiver (TL-TP100-HDC-R). Using HDBaseT technology, the set transmits an HDMI signal to the receiver up to 100m 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. Each unit has a 2 port network switch and a 10/100 Ethernet connection is extended through the cable.

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)
Ethernet	2x 8P8C port (Shielded RJ45)
Supported Video and Audio	
Maximum Video Compatibility	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	100m (330 ft.)
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	152mm 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
Network Indicators	Link Speed and Activity
Included Items	Installation Guide, power supply, US power cord, mounting "L" brackets (4 ea), mounting screws (4 ea), IR Transmitter, IR Receiver

Dimensional Drawings

TX

LINK   HDCP   ⏻

16.20 mm (0.64 in)   16.20 mm (0.64 in)

152.00 mm (5.98 in)

TL-TP100-HDC
Transmitter

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⚡HDBT™

104.00mm (4.09 in)   104.00mm (4.09 in)

RS232   IR IN   IR OUT   HDMI IN   HDBT OUT   ETHERNET   ETHERNET   24V DC

152.00 mm (5.98 in)

16.20 mm (0.64 in)   16.20 mm (0.64 in)

Tx ⏚ Rx

RX

LINK   HDCP   ⏻

16.20 mm (0.64 in)   16.20 mm (0.64 in)

152.00 mm (5.98 in)

TL-TP100-HDC
Receiver

TechLogix Networx

⚡HDBT™

104.00mm (4.09 in)   104.00mm (4.09 in)

RS232   IR IN   IR OUT   HDMI OUT   HDBT IN   ETHERNET   ETHERNET   24V DC

152.00 mm (5.98 in)

16.20 mm (0.64 in)   16.20 mm (0.64 in)

Tx ⏚ Rx