TP-580TD 4K60 4:2:0 DVI HDCP 2.2 Transmitter with RS-232 & IR over Long-Reach HDBaseT

TP-580TD is a high-performance, long-reach HDBaseT transmitter for 4K@60Hz (4:2:0) HDMI, RS-232 and IR signals over twisted pair, via single-link DVI-I connection. The TP-580TD converts all input signals into the transmitted HDBaseT signal. It extends video signals to up to 40m (130ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions.

FEATURES

High Performance Standard Extender - Professional HDBaseT extender for providing long-reach signals over twisted-pair copper infrastructures. TP-580TD is a standard extender that can be connected to any market-available HDBaseT-compliant extension product. For optimum extension reach and performance, use recommended Kramer cables.

Secured Operation - Highly-secured operation is ensured by lockable wiring connectivity with protection against unintentional cable disconnection.

HDMI Signal Extension - HDCP 2.2 compliant, via single-link DVI-I connection. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0. EDID signals are passed through from the source to the display.

I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.

Multi-channel Audio Extension - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound.

Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data transmission and device control.

Bidirectional Infrared Extension - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line.

Cost-effective Maintenance - Status LED indicators for DVI and HDBT ports facilitate easy local maintenance and troubleshooting.

Easy Installation - Compact DigiTOOLS® fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter.

TECHNICAL SPECIFICATIONS

Inputs
1 DVI-D On a DVI-I female connector

Outputs
1 HDBaseT On an RJ-45 female connector

Ports
1 IR On a 3.5mm mini jack for IR link extension
1 RS-232 On a 9-pin D-sub connector for serial link extension and device firmware upgrade

Extension Line
Compliance HDBaseT 1.0
Up to 40m (130ft) At 4K@60Hz (4:2:0) (When using Kramer HDBaseT cables)
Up to 70m (230ft) At full HD (1080p @60Hz 36bpp) (When using Kramer HDBaseT cables)

Video
Max. Data Rate 10.2Gbps (3.4Gbps per graphic channel)
Max. Supported Resolution 4K@60Hz (4:2:0) 24bpp
Standards Compliance HDCP 2.2

HDMI Support
Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0

Extended RS-232
Baud Rate 300 to 115200

Control RS-232
Baud Rate 115200

Enclosure
Size DigiTOOLS®
Type Aluminum
Cooling Convection ventilation

Power
Source 12V DC, 2A
Consumption 12V DC, 275mA

Environmental Conditions
Operating Temperature 0° to 40°C (32° to 104°F)
Storage Temperature: −40° to +70°C (~40° to 158°F)
Humidity 10% to 90%, RHL non-condensing

Accessories
Included Power supply unit

Product Dimensions
12.00cm x 7.15cm x 2.44cm (4.72” x 2.81” x 0.96”) W, D, H

Product Weight
0.3kg (0.6lbs) approx

Shipping Dimensions
15.70cm x 12.00cm x 8.70cm (6.18” x 4.72” x 3.43”) W, D, H

Shipping Weight
0.7kg (1.5lbs) approx