The TP-580R is a 4K UHD, twisted pair receiver for HDMI, bidirectional RS-232 and IR signals. It supports resolutions up to 4K@60 UHD (4:2:0). The TP-580T converts HDMI, RS-232, and IR signals into a twisted pair signal that it transmits to a TP-580R receiver. The TP-580R converts the twisted pair signal back into HDMI, bidirectional RS-232 and IR signals.

FEATURES

High Performance Standard Extender - Professional HDBaseT extender for providing long-reach signals over twisted-pair copper infrastructures. TP-580R 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.

HDMI Signal Extension - HDCP 2.2 compliant. 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 and CEC 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 HDMI and HDBT ports facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection and the K-Upload tool ensures lasting, field-proven deployment.

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 HDBT on an RJ-45 female connector

**OUTPUTS:**
1 HDMI on an HDMI 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:**
HDBaseT 1.0 compliant;
- Up to 40m (130ft) at 4K @60Hz (4:2:0);
- Up to 70m (230ft) at full HD (1080p @60Hz 36bpp);
Note: When using Kramer HDBaseT cables

**VIDEO:**
- Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel)
- Up to 4K UHD @60Hz (4:2:0) 24bpp resolution
- HDCP 2.2 signal compliance
- 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

**EXTENDED RS-232:**
300 to 115200 baud rate

**CONTROL RS-232:**
115200 baud rate

**POWER SOURCE:**
12V DC, 2A

**POWER CONSUMPTION:**
12V DC, 430mA

**ENCLOSURE:**
DigiTOOLS® size, aluminum type

**COOLING:**
Convection ventilation

**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

**INCLUDED ACCESSORIES:**
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**
0.2kg (0.4lbs) 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 (1.6lbs) approx