TP-780Txr is a high-performance, extended-reach HDBaseT transmitter for 4K60Hz (4:2:0) HDMI, Ethernet, RS-232 and IR signals over twisted pair. The TP-780Txr converts all input signals into the transmitted HDBaseT signal. It extends video signals to up to 100m (330ft) 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 extended-reach signals over twisted-pair copper infrastructures. TP-780Txr 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.

Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control.

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 and Elegant Installation - Single cable connectivity for both HDBaseT signals and power. Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.
TECHNICAL SPECIFICATIONS

INPUTS: 1 HDMI on an HDMI connector

OUTPUTS: 1 HDBT 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,
1 10Base−T/100BaseTx Ethernet on an RJ−45 female connector for LAN extension

EXTENSION LINE: HDBaseT 1.0 compliant;
Up to 100m (330ft) at 4K @60Hz (4:2:0);
up to 130m (430ft) at full HD (1080p @60Hz 36bpp);
up to 180m (590ft) at HDBaseT ultra mode and full HD (1080p @60Hz 24bpp);
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 ETHERNET: Up to 100Mbps extended line rate bandwidth

EXTENDED RS-232: 300 to 115200 baud rate

CONTROL RS-232: 115200 baud rate

POWER SOURCE: 48V DC, 1.36A

POWER CONSUMPTION: 48V DC, 280mA

ENCLOSURE: Mega Tools 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 48V/1.36A, bracket installation kit

Product Dimensions 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00" ) W, D, H

Product Weight 0.4kg (0.9lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H

Shipping Weight 1.0kg (2.2lbs) approx