TP-780Txr
4K60 4:2:0 HDMI HDCP 2.2 PoE Transmitter
with Ethernet, RS−232 & IR over
Extended−Reach HDBaseT

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