TP-780TXR

4K60 4:2:0 HDMI HDCP 2.2 PoE Transmitter
with Ethernet, RS232 & IR over
ExtendedReach HDBaseT

| HDMI | HDCP Compliant | HDBaseT
| 4K/60 UHD (4:2:0)

TP780TXR is a highperformance, HDBaseT twisted pair transmitter for 4K@60Hz (4:2:0), 2Kx4K HDMI, Ethernet, bidirectional RS232, IR signals and PoE. The TP780TXR inputs HDMI, Ethernet, RS232, and IR signals and converts them into an HDBaseT twisted pair signal that it transmits to a TP780RXR receiver. The TP780TXR provides power remotely over Ethernet to the TP780RXR in places where an external power supply is difficult to reach. The result is that a single HDBaseT LAN cable can provide both data and power to compatible devices

FEATURES

Reach Extension - 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), when using Kramer HDBaseT cables

Transmitted Data Bandwidth - Up to 10.2Gbps (3.4Gbps per graphic channel)

Transmitter Compliance - Complies with HDBaseT receiver

Video Resolution - Up to 4K@60Hz (4:2:0) 24bpp

HDMI Signal Transmission - HDMI 2.0 and HDCP 2.2 compliant signal, supporting deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTSHD, CEC, Full HD, 2K, 4K, and 3D

Multichannel Audio Transmission - Up to 32 channels of digital stereo uncompressed signals for supporting surround sound at studio level

EDID and CEC Pass Through - Passes EDID and CEC signals from the source to the display

Ethernet Transmission - Ethernet interface data flows in both directions to allow extension of up to 100Mbps Ethernet connectivity for LAN communication and device control

Bidirectional RS232 Transmission - Serial interface data flows in both directions to allow data transmission and device control

Bidirectional Infrared Transmission - IR interface data flows in both directions to allow remote control of peripheral devices located at either end of the extended line

Firmware Upgrade - Local upgrade via RS232 control connection and the KUpload tool to ensure fieldproven deployment

LED Indicators - Status indicators for HDMI input and the HDBT output link facilitate maintenance and troubleshooting

Easy Installation - Single cable for transmitting HDBaseT signals and PoE to the receiver. Compact Mega TOOLS™ fanless enclosure for overceiling mounting, or sidebyside mounting of 2 units in a 1U rack space with the optional RKT2B rack adapter

KRAMER

TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI connector
OUTPUTS:	1 twisted pair RJ45 connector
PORTS:	1 IR on a 3.5mm mini jack, 1 RS232 on a 9pin Dsub connector
MAX. DATA RATE:	10.2Gbps (3.4Gbps per graphic channel)
RS-232 BAUD RATE:	115200
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI and HDCP
POWER CONSUMPTION:	48V DC, 280mA
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 noncondensing
PRODUCT DIMENSION:	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 DIMENSION:	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
INCLUDED ACCESSORIES:	Power supply 48V/1.36A, bracket installation kit
OPTIONS:	RKT2B 19" rack mount, Kramer external IR sensor (P/N: 950104050), Kramer IR emitter cable (P/N: CA35/IRE10)