



## TP-780TXR

4K UHD HDMI, Ethernet, Bidirectional RS-232 & IR over Extended Range HDBaseT Twisted Pair Transmitter with POE



TP-780TXR is a high-performance, HDBaseT twisted pair transmitter for 4K@60Hz (4:2:0) UHD, 2Kx4K HDMI, Ethernet, bidirectional RS-232, IR signals and PoE. The TP-780TXR inputs HDMI, Ethernet, RS-232, and IR signals and converts them into an HDBaseT twisted pair signal that it transmits to a TP-780RXR receiver. The TP-780TXR provides power remotely over Ethernet to the TP-780RXR where it might be difficult to connect an external power supply. This allows a single HDBT LAN cable to provide both data and electrical power to compatible devices.

## FEATURES

- Max. Resolution - 4K@60Hz (4:2:0) UHD, 2Kx4K.
- Max. Data Rate - 10.2Gbps (3.4Gbps per graphic channel).
- HDTV Compatible.
- HDCP Compliant.
- HDBaseT™ Technology.
- Power Over Ethernet - Allows a single HDBT LAN cable to provide both data and electrical power to compatible devices.
- TP-780TXR Provides Power to TP-780RXR.
- Ethernet Passthrough
- HDMI Support - Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, CEC.
- 3D Pass-Through.
- EDID PassThru - Passes EDID signals between the source and display.
- 2K & 4K Support.
- Bidirectional RS-232 & IR Interface. - Commands and data can flow in both directions via the RS-232 interface, allowing status requests and remote control of the destination unit.
- System Range - Up to 130m (430ft) at normal mode (2K), up to 100m at normal mode (4K); up to 180m (590ft) ultra mode (1080p @60Hz @24bpp) when using BC-HDKat6a cables.
- Cable - For optimum range and performance using HDBaseT™, use Kramer's BC-HDKat6a cable. Note that the transmission range depends on the signal resolution, source and display used. The distance using non-Kramer CAT 6 cable may not reach these ranges.
- Indicators - Status LEDs for input, output, link and power.

TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI connector.
OUTPUTS:	1 RJ-45 connector.
PORTS:	1 IR on a 3.5mm mini jack, 1 RS-232 on a 9-pin D-sub 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 non-condensing.
DIMENSIONS:	18.8cm x 11.5cm x 2.5cm (7.4" x 4.5" x 1.0") W, D, H.
WEIGHT:	0.6kg (1.4lbs).
INCLUDED ACCESSORIES:	Power supply 48V/1.36A, bracket installation kit.
OPTIONS:	RK-T2B 19" rack mount, Kramer external IR sensor (P/N: 95-0104050), Kramer IR emitter cable (P/N: C-A35/IRE-10).

