



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, extendedreach HDBaseT transmitter for 4K60Hz (4:2:0) HDMI, Ethernet, RS232 and IR signals over twisted pair. The TP780TXR converts all input signals into an HDBaseT signal that it transmits over twisted pair. The extended HDBaseT signal is decoded by the receiver, such as Kramer TP780RXR, back to 4K60Hz (4:2:0) HDMI, Ethernet, RS232 and IR output signals

FEATURES

High Performance Standard Extender - Highquality professional extension of max 4K@60Hz (4:2:0) 24bpp video resolution signal to maximum 100m (330ft) extendedreach over CAT copper cable, and even further reach for lower HD video resolution. Extender is standard, capable of being connected to any marketavailable HDBaseT compliant extending products

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. EDID and CEC signals are passed through from the source to the display

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

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

Cables - For optimum range and performance, use the recommended Kramer cables available at www.kramerav.com/product/TP780TXR

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



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TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI connector
OUTPUTS:	1 HDBaseT RJ45 connector for extension line
PORTS:	1 IR on a 3.5mm mini jack for IR link extension, 1 RS232 on a 9pin Dsub connector for serial link extension and device firmware upgrade, 1 10BaseT/100BaseTx Ethernet on an RJ45 female connector for LAN extension
MAX. DATA RATE:	10.2Gbps (3.4Gbps per graphic channel)
RANGE 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), Note: When using Kramer HDBaseT cables
EXTENDED ETHERNET:	Up to 100Mbps extended line rate bandwidth
EXTENDED RS-232:	300 to 115200 baud rate
EXTENDED IR:	20KHz to 1.2MHz frequency range
CONTROL RS-232:	115200 baud rate
STANDARD COMPLIANCE:	HDBaseT 1.0, HDMI 2.0 and HDCP 2.2
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
POWER SOURCE:	48V DC, 1.36A
POWER CONSUMPTION:	48V DC, 280mA
ENCLOSURE:	MegaTool unit size
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 noncondensing
INCLUDED ACCESSORIES:	Power supply 48V/1.36A, bracket installation kit
OPTIONS:	RKT2B 19" rack mount

