



## TP-780Txr

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

| HDMI | HDCP Compliant | HDBaseT  
| 4K/60 UHD (4:2:0) | HDCP 2.2 Compatible



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

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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,<br>1 RS-232 on a 9-pin D-sub connector for serial link extension and device firmware upgrade,<br>1 10Base-T/100BaseTx Ethernet on an RJ-45 female connector for LAN extension                                                    |
| EXTENSION LINE:        | HDBaseT 1.0 compliant;<br>Up to 100m (330ft) at 4K @60Hz (4:2:0);<br>up to 130m (430ft) at full HD (1080p @60Hz 36bpp);<br>up to 180m (590ft) at HDBaseT ultra mode and full HD (1080p @60Hz 24bpp);<br>Note: When using Kramer HDBaseT cables                                    |
| VIDEO:                 | Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel)<br>Up to 4K UHD @60Hz (4:2:0) 24bpp resolution<br>HDCP 2.2 signal compliance<br>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     | 19.00cm x 11.60cm x 2.70cm (7.48" x 4.57" x 1.06" ) 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                                                                                                                                                                                                                                                             |



