



TP-581T

HD HDMI Transmitter with Ethernet, RS-232 & IR over Extended-Reach HDBaseT



TP-581T is a high-performance, extended-reach HDBaseT transmitter for 1080p60Hz HDMI, Ethernet, RS-232 and IR signals over twisted pair. The TP-581T converts all input signals into the transmitted HDBaseT signal. It extends video signals to up to 130m (430ft) over CAT copper cables at up to 1080p@60Hz 36bpp video resolution. The TP-582R converts the HDBaseT twisted pair signal back to Ethernet, RS-232, IR and two HDMI outputs, and de-embeds the audio to S/PDIF and TOSLINK® audio outputs.

FEATURES

- **High Performance Standard Extender** - Professional HDBaseT extender for providing extended-reach signals over twisted-pair copper infrastructures. TP-581T 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** - HDMI 1.4 and HDCP 2.2 compliant. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, and 3D. EDID 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 8 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.
- **Easy and Elegant Installation** - Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the optional RK-T2B 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, 1 10Base-T/100BaseTx Ethernet on an RJ-45 female connector for LAN extension. |
| EXTENSION LINE: | HDBaseT 1.0 compliant; up to 130m (430ft) at full HD (1080p @60Hz 36bpp); Note: When using Kramer HDBaseT cables. |
| VIDEO: | Up to 6.75Gbps bandwidth (2.25Gbps per graphic channel), Up to 1080p@60Hz 36bpp resolution, HDMI 1.4 and HDCP 2.2 signal compliance. |
| EXTENDED ETHERNET: | Up to 100Mbps extended line rate bandwidth. |
| EXTENDED RS-232: | 300 to 115200 baud rate. |
| POWER SOURCE: | 5V DC, 4A. |
| POWER CONSUMPTION: | 5V DC, 800mA. |
| ENCLOSURE: | Mega Tools size, Aluminium type. |
| COOLING: | Convection ventilation. |
| INCLUDED ACCESSORIES: | Power supply 5V/4A, bracket installation kit. |
| OPTIONS: | RK-T2B 19" rack mount. |
| PRODUCT DIMENSIONS: | 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H |
| PRODUCT WEIGHT: | 0.0kg (0.0lbs) approx. |
| SHIPPING DIMENSIONS: | 35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H |
| SHIPPING WEIGHT: | 0.8kg (1.8lbs) approx. |

