



KRAMER

TP-590TXR

HDMI, Audio, USB, Bidirectional RS-232 & IR over HDBaseT 2.0 Twisted Pair Transmitter



The TP-590TXR is a high-performance, extended range, HDBaseT 2.0 transmitter for HDMI, USB2.0, audio, bidirectional RS-232 and IR signals. The TP-590TXR converts the HDMI, USB2.0, audio, RS-232 and IR input signals into an HDBaseT twisted pair signal that it sends to the TP-590RXR for decoding.

FEATURES

- Maximum Data Rate - 10.2Gbps (3.4Gbps per graphic channel).
- HDTV Compatible.
- HDCP Compliant.
- HDBaseT V2 Support.
- USB Support - USB1.1 & USB2.0 (up to 127Mbps).
- Supports Isochronous USB Cameras.
- HDMI Support - Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, CEC, 2K, 4K, 3D.
- 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.
- Cables - For optimum range and performance, 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.
- EDID Pass Through - Passes EDID signals from the source to the display.
- USB Pass-Through - For connecting a peripheral device, such as, a mouse or a keyboard.
- Bidirectional RS-232 Interface - Data flows in both directions via the RS-232 interface, allowing status requests and device control.
- Bidirectional Infrared Interface - For remote control of peripheral devices.
- USB Pass-Through - For connecting a peripheral device, such as, a mouse or a keyboard.
- Power over Ethernet (PoE) - The transmitter can provide power over the TP cable to a PoE-compatible receiver.
- Audio Support - Embedded and unbalanced stereo audio transmission.
- Indicators - LED status indicators for input, output, HDBT link and power.

TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI on an HDMI connector, 1 stereo analog audio on a 3.5mm mini jack.
OUTPUTS:	1 HDBT on a RJ-45 connector, 1 USB2.0 on a USB connector.
PORTS:	1 IR on a 3.5mm mini jack, 1 RS-232 on a 3-pin terminal block for the serial link, 1 RS-232 on a 3-pin terminal block for transmitter control, 1 Ethernet on an RJ-45 connector for transmitter control.
MAX. DATA RATE:	10.2Gbps (3.4Gbps per graphic channel) in normal mode, up to 4.95Gbps (1.65Gbps per graphic channel) in ultra mode.
RS-232 BAUD RATE:	115200.
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI and HDCP.
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.
POWER CONSUMPTION:	12V DC, 720mA.
DIMENSIONS:	18.8cm x 11.3cm x 2.6cm (7.4" x 4.45" x 1.0") W, D, H.
WEIGHT:	0.6kg (1.32lbs).
ACCESSORIES:	Power supply (48V, 0.5A).
OPTIONS:	RK-T2B 19" rack mount; Kramer external IR sensor (P/N: 95-0104050), Kramer IR emitter cable (P/N: C-A35/IRE-10), Kramer BC-HDKat6a cable; 2 IR Emitter Extension Cables are also available: a 15m cable and a 20m cable.

