TP-590TXR

4K UHD HDMI HDBaseT Line Transmitter

The TP‑590TXR is a high‑performance, extended range, HDBaseT 2.0 transmitter for HDMI, USB 2.0, audio, bidirectional RS‑232 and IR signals. The TP‑590TXR converts the HDMI, USB 2.0, 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** - USB 1.1 & USB 2.0 (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 connector, 1 stereo analog audio on a 3.5mm mini jack.
OUTPUTS:	1 HDBT on a RJ−45 connector.
PORTS:	1 IR on a 3.5mm mini jack, 1 USB 2.0 on a USB connector, 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:	Supports up to 10.2Gbps (3.4Gbps bandwidth per graphic channel).
RS-232 BAUD RATE:	115200.
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI and HDCP.
USB STANDARD:	USB 1.1 and 2.0.
SUPPORTED WEB BROWSERS:	Windows 7 and higher: Internet Explorer (32/64 bit) version 11, Firefox version 30, Chrome version 35; MAC:Chrome version 35, Firefox version 27, Safari version 7; Android OS: Chrome version 35; iOS:Chrome version 35, Safari version 7.
ENCLOSURE TYPE:	Aluminium.
COOLING:	Convection, vents.
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:	48V DC, 800mA.
DIMENSIONS:	18.8cm x 11.3cm x 2.6cm (7.4" x 4.45" x 1.0") W, D, H.
WEIGHT:	0.5kg (1.1lbs).
SHIPPING WEIGHT:	1.0kg (2.2lbs) approx.
VIBRATION:	ISTA 1A in carton (International Safe Transit Association).
SAFETY REGULATORY COMPLIANCE:	CE.
ENVIRONMENTAL REGULATORY COMPLIANCE:	RoHs and WEEE.
ACCESSORIES:	Power supply (48V, 1.36A).
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 (15m & 20m).