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.