TP-590RXR

4K UHD HDMI, Audio, USB, Bidirectional RS232 & IR over HDBaseT 2.0 Twisted Pair Receiver

| HDMI | Ethernet - RJ-45 | HDBaseT
| 4K/60 UHD (4:2:0)

The TP590RXR is a 4K UHD extended range, HDBaseT 2.0 receiver for HDMI, USB 2.0, audio, bidirectional RS232 and IR signals. It supports resolutions up to 4K@60 UHD (4:2:0). The TP590RXR receives the HDBT twisted pair signal from the TP590TXR that it decodes back into HDMI, USB, audio, RS232, and IR signals

FEATURES

Resolution Support - Up to 4K@60 UHD (4:2:0)

Maximum Data Rate - 10.2Gbps (3.4Gbps per graphic channel)

HDTV Compatible

HDCP Compliant

HDBaseT Certified - V2.0 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, DTSHD, 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 BCHDKat6a cables

Cables - For optimum range and performance, use Kramer's BCHDKat6a cable. Note that the transmission range depends on the signal resolution, source and display used. The distance using nonKramer 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 RS232 interface, allowing status requests and device control

Bidirectional Infrared Interface - For remote control of peripheral devices

Power over Ethernet (PoE) - The device can be powered from remote transmitter such as the TP590TXR

Audio De-embedding

Indicators - LED status indicators for input, output, HDBT link and power

TECHNICAL SPECIFICATIONS

INPUTS:	1 HDBT on a RJ45 connector
OUTPUTS:	1 HDMI on an HDMI connector, 1 stereo analog audio on a 3.5mm mini jack
PORTS:	1 IR on a 3.5mm mini jack, 1 USB 2.0 on a USB connector, 1 RS232 on a 3pin terminal block for the serial link, 1 RS232 on a 3pin terminal block for transmitter control, 1 Ethernet on an RJ45 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
PRODUCT DIMENSION:	18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H
PRODUCT WEIGHT:	0.5kg (1.1lbs) approx
SHIPPING DIMENSION:	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
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 noncondensing
POWER CONSUMPTION:	12V DC, 900mA
VIBRATION:	ISTA 1A in carton (International Safe Transit Association)
SAFETY REGULATORY COMPLIANCE:	CE
ENVIRONMENTAL REGULATORY COMPLIANCE:	RoHs and WEEE
ACCESSORIES:	Power supply (12V, 2A)
OPTIONS:	RKT2B 19" rack mount; Kramer external IR sensor (CA35M/IRRN3 or CA35M/IRRN50); Kramer IR emitter cable (CA35M/IRE10); Kramer BCUNIKat cable; 2 IR emitter extension cables (15m & 20m)

TP-590TXR

Mouse

USB

TP-590RXR

HDMI

Audio

USB

IR
Emitter

Laptop

HDBT

IR
Sensor

Amplified
Speakers

Projector

RS-232

HDMI

Audio