

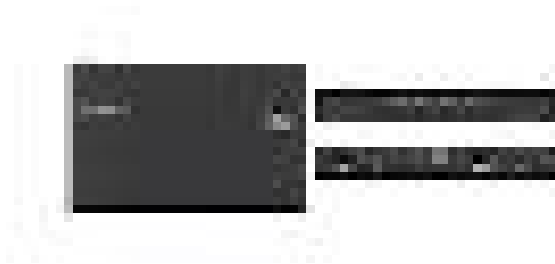


KRAMER

TP-590RXR

4K60 4:2:0 HDMI PoE Receiver with USB, Ethernet, RS-232, IR & Stereo Audio Extraction over Extended-Reach HDBaseT 2.0

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



TP-590RXR is a high-performance, extended-reach HDBaseT 2.0 receiver for 4K60Hz (4:2:0) HDMI, USB, Ethernet, RS-232, IR and stereo audio signals over twisted pair. It extends video signals to up to 100m (330ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions

FEATURES

High Performance Standard Extender - Professional HDBaseT extender for providing extended-reach signals over twisted-pair copper infrastructures. TP-590RXR 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 2.0 and HDCP 1.4 compliant. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D. EDID and CEC signals are passed through from the source to the display

I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm ensures Plug and Play operation for HDMI source and display systems

Multi-channel HDMI Audio Extension - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

Audio De-embedding (Drop-and-Continue) - The transmitted digital audio signal is extracted from the AV signal (dropped), converted to an analog signal for transmission to stereo balanced analog audio output, in parallel to being transmitted (continued) to the HDMI AV output. This enables high-quality audio playback by routing the audio to external speakers in parallel to routing the audio to the connected AV acceptor device's local speakers (such as TVs with speakers)

USB Extension - USB 2.0 interface data flows in both directions, allowing extension of HID (Human Interface Devices) peripheral devices, such as a mouse or a keyboard. High-bandwidth USB peripheral devices, such as USB isochronous streaming cameras and audio devices, transfer data continuously and periodically. Delivery of their transferred data is not guaranteed by the USB standard and is subject to both USB and HDBaseT line bandwidth management limitations. When such devices are connected, check their functionality to ensure bandwidth limitations are not exceeded

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 Transmission - 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. Remote device management via built-in web UI, RS-232 connection and Kramer Network. Local and remote firmware upgrade via mini-USB, RS-232 or Ethernet connection and the K-Upload tool ensure lasting, field-proven deployment

Easy and Elegant Installation - Single cable connectivity for both HDBaseT signals and power. 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 HDBT on an RJ-45 female connector
OUTPUTS:	1 HDMI on an HDMI connector, 1 Stereo analog unbalanced audio on a 3.5mm mini jack
PORTS:	1 IR on a 3.5mm mini jack for IR link extension, 4 USB 2.0 on a USB-A connector, 1 RS-232 on a 3-pin terminal block for serial link extension, 1 RS-232 on a 3-pin terminal block for device control, 1 10Base-T/100BaseTx Ethernet on an RJ-45 female connector for device control and network traffic extension
EXTENSION LINE:	HDBaseT 2.0 compliant; Up to 100m (330ft) at 4K @60Hz (4:2:0); up to 130m (430ft) at full HD (1080p @60Hz 36bpp); up to 180m (590ft) at HDBaseT ultra mode and full HD (1080p @60Hz 24bpp); Note: When using Kramer HDBaseT cables
VIDEO:	Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel) Up to 4K UHD @60Hz (4:2:0) 24bpp resolution HDMI 2.0 and HDCP 1.4 signal compliance
AUDIO:	Up to 1 Vrms level 0.03% THD + NOISE @ 1 KHz at nominal level
EXTENDED USB:	1.1 and 2.0 Host compliance Up to 127Mbps (out of max 480 USB) extended line rate bandwidth Up to 7 devices Up to 2 hubs Up to 8 ports per hub
EXTENDED ETHERNET:	Up to 100Mbps extended line rate bandwidth
EXTENDED RS-232:	300 to 115200 baud rate
CONTROL RS-232:	115200 baud rate
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
POWER SOURCE:	12V DC, 2A
POWER CONSUMPTION:	12V DC, 900mA
ENCLOSURE:	Mega Tools size, Aluminium type
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
COOLING:	Convection ventilation
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

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: RK-T2B 19" rack mount;
Kramer recommended cables – See Cables & Accessories section

