



TP-789Rxr

4K60 4:2:0 HDMI Bidirectional PoE Receiver
with Ethernet, RS-232 & IR over
Extended-Reach HDBaseT

| HDMI | Ethernet - RJ-45 | HDBaseT
| 4K/60 UHD (4:2:0) | HDCP 2.2 Compatible



TP-789Rxr is a high-performance, extended-reach HDBaseT receiver for 4K60Hz (4:2:0) HDMI, Ethernet, RS-232 and IR signals and 2-way powering over twisted pair. It extends video signals to up to 100m (330ft) over Kramer copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions. This receiver either provides power over the copper extension cable to a POE (Power over Ethernet) acceptor device such as a PoE wall-plate, or accepts PoE through the extension cable from a PoE provider remote device, as auto-sensed by the receiver

FEATURES

High Performance Standard Extender - Professional HDBaseT extender for providing extended-reach signals and powering over twisted-pair copper infrastructures. TP-789Rxr 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

Bidirectional PoE (Power over Ethernet) - Auto-senses the extension line PoE status and either provides power to a remote POE acceptor such as a PoE wall-plate, or accepts power from a remote PoE provider such as a PoE matrix

HDMI Signal Extension - Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0. EDID and CEC signals are passed through from the source to the display

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

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

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 Extension - 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 and PoE feed status facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection ensures lasting, field-proven deployment

Easy Installation - Single cable connectivity for both HDBaseT signals and power. Compact DigiTOOLS® fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter



TECHNICAL SPECIFICATIONS

Inputs	1 HDBT On a female RJ-45 connector
Outputs	1 HDMI On a female HDMI connector
Ports	1 IR On a 3.5mm mini jack for IR link extension
	1 RS-232 On a 3-pin terminal block connector for serial link extension and device firmware upgrade
	1 100BaseT Ethernet On an RJ-45 female connector for LAN extension
Extension Line	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
	Standards Compliance HDBaseT 1.0
Video	Max. Data Rate 10.2Gbps (3.4Gbps per graphic channel)
	Max. Resolution: 4K@60Hz (4:2:0) 24bpp resolution
	HDMI Support Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0
Extended Ethernet	Up to 100Mbps extended line rate bandwidth
Extended RS-232	300 to 115200 baud rate
Extended Bidirectional IR	20kHz to 100kHz frequency
User Interface	Indicators IN, OUT, LINK, PoE FEEDER and ON LED indicators
	Controls DIP-switches
Power	Source 48V DC, 1.36A
	PoE Acceptor and Provider
	Consumption 370mA
	Consumption with PoE 13Watt
Enclosure	Size DigiTOOLS®
	Material Aluminum
	Cooling: Convection ventilation
Environmental Conditions	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
STANDARDS COMPLIANCE	Safety CE
	Environmental RoHs, WEEE

Accessories	Included Power adapter, bracket set
Product Dimensions	12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96") W, D, H
Product Weight	0.3kg (0.6lbs) approx
Shipping Dimensions	49.00cm x 18.60cm x 58.80cm (19.29" x 7.32" x 23.15") W, D, H
Shipping Weight	0.7kg (1.5lbs) approx

