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TP-789R

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

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



TP-789R is a high-performance, long-reach HDBaseT receiver for 4K60Hz (4:2:0) HDMI, RS-232 and IR signals and two-way powering over twisted pair. It extends video signals to up to 40m (130ft) 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 long-reach signals and powering over twisted-pair copper infrastructures. TP-789R 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

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



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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 connector for IR link extension 1 RS-232: On a 3-pin terminal block connector for serial link extension and device firmware upgrade |
| Extension Line | Up to 40m (130ft) At 4k@60Hz (4:2:0) Up to 70m (230ft) At full HD (1080p@60Hz) 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 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: 350mA |
| 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 |
| Enclosure | Size: Tool Type: Aluminum Cooling: Convection ventilation |
| 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 | 0.2kg (0.5lbs) 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

