WP-789T
4K60 4:2:0 HDMI 1−Gang PoE Wall−Plate Transmitter with RS−232 & IR over Long−Reach HDBaseT

WP-789T is a high−performance, long−reach HDBaseT wall−plate transmitter for 4K@60Hz (4:2:0) HDMI and HDCP 2.2 signals over twisted pair. It converts the HDMI input signal into an HDBaseT signal and transmits it to a compatible receiver. 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 wall−plate is powered through PoE (Power over Ethernet) over the twisted pair cable.

FEATURES

High Performance Transmitter - Professional HDBaseT transmitter for providing long−reach signals over twisted pair copper infrastructures. WP–789T 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.

Reliable PoE (Power over Ethernet) Powering - Auto−senses the extension line PoE status, and accepts power from a remote PoE provider such as a PoE matrix, with optional mains powering from connected power adapter.

HDMI Signal Extension - HDCP 1.4 and 2.2 compliant. 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 Pass−through - Pass−through algorithm 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.

Cost−Effective Maintenance - Power and connectivity status LED indicator facilitates easy local maintenance and troubleshooting.

Easy Installation - Compactly fits into standard US, EU and UK 1−gang in−wall box size, supporting decorative integration with room deployed user interfaces such as electrical switches. Wall−plate installation is fast and cost−effective via a single twisted pair cable, providing both video signal and power (PoE) connections.
## TECHNICAL SPECIFICATIONS

### Inputs
- **HDMI**: On a female HDMI connector
- **IR**: On 2-pin terminal block connectors (Tx−1 or Tx−2 and G) for signal extension over HDBT line

### Outputs
- **HDBT**: On a female RJ-45 connector
- **IR**: On 2-pin (Rx (on IR), G) terminal block connectors for emitting signal received from HDBT line

### Ports
- **RS-232**: On 3-pin terminal block connectors (G, Rx, Tx) for signal extension over HDBT line
- **RS-232**: On 3-pin terminal block connectors (G, Rx, PROG) for upgrading the FW

### Video
- **Max Bandwidth**: 10.2Gbps
- **Max Resolution**: 4K@60 (4:2:0)
- **Compliance**: HDCP 1.4 and 2.2 pass-through, EDID and CEC pass through
- **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

### Extension Line
- **Up to 40m (130ft) At 4k@60 (4:2:0)**
- **Up to 70m (230ft) At full HD (1080p@60Hz)**

### Extended RS-232
- **Baud Rate**: 300 to 115200 baud

### Extended IR
- **Frequency**: Wide-range 20kHz to 100kHz modulated or 38kHz fixed

### Power
- **Consumption with Power Adapter**: 12V DC, 250mA
- **Source**: 12V DC, 2A with DC head open

### 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

### Regulatory Compliance
- **Safety**: CE
- **Environmental**: RoHs, WEEE

### Enclosure
- **Type**: Aluminum
- **Cooling**: Convection ventilation

### Accessories
- **Included**: 1 Power adapter, 1 power cord, installation accessories
- **Included in the US version**: 2 US–D frame sets and faceplates (in black and in white)
  - Included in the European version: 1 EU white frame, 1 UK white frame, 1 EU/UK white faceplate

### Product Dimensions
- **US**: 6.98cm x 3.10cm x 11.43cm (2.75" x 1.22" x 4.50") W, D, H
- **EU**: 8.00cm x 3.10cm x 8.00cm (3.15" x 1.22" x 3.15") W, D, H

### Product Weight
- **US**: 0.1kg (0.2lbs) approx
- **EU**: 0.1kg (0.1lbs) approx
Shipping Dimensions
US: 23.20cm x 13.60cm x 10.00cm (9.13" x 5.35" x 3.94") W, D, H
EU: 23.20cm x 13.60cm x 10.00cm (9.13" x 5.35" x 3.94") W, D, H

Shipping Weight
US: 0.6kg (1.3lbs) approx
EU: 0.6kg (1.3lbs) approx