



## KDS-8

Zero Latency 4K HDR SDVoE Video Streaming Transceiver over Copper

| Ethernet - RJ-45 | 4K/60 UHD (4:4:4)



KDS-8 is a high-performance, zero latency, 4K@60Hz (4:4:4) video streaming transceiver for streaming via Ethernet over copper cable. KDS-8 can be set as either an encoder or decoder. As an encoder, it encodes and streams the HDMI input along with IR, RS-232, and analog audio, over an IP network. As a decoder, it receives the encoded signal and decodes it for output

## FEATURES

**High-Performance Video Streaming Transceiver** - Streams up to 4K@60Hz (4:4:4) resolution signals over a 10G network interface, providing lossless compression

**Maximum Compatibility** - Fully standard and compliant SDVoE™ codec, enables compatibility with other software and hardware streaming platforms

**Streamlined Management and Configuration** - Kramer KDS-8-MNGR device (sold separately) provides a central point of management and enables creating multiple virtual matrices, video walls and multi-view configurations. In addition, KDS-8-MNGR supports preset configurations that can be activated using Kramer Control

**HDCP 2.2 Compliant, HDR Support, Genlock and Fastswitch Modes Support**

**High-Speed 10G Network Switch** - Managed switch provides: multicast, jumbo frames, IGMP snooping and fast leave

**Analog Audio Embedding** - Provides an unbalanced analog audio port for embedding audio into the streaming signal

**Bi-directional IR over IP** - Control an IR device located on the decoder side from the encoder and vice versa

**Bi-directional RS-232 over IP** - Control a serial device located on the decoder side from the encoder and vice versa

**Video Wall Support**

**Multiview Support**

**Easy, Cost-Effective Maintenance** - LED indicators for main power, Tx/Rx mode setting, HDMI video source detection, and Tx and Rx transmission enable easy local maintenance and troubleshooting

**Simple System Management** - Remote system management support to enable quick and efficient remote system and device life-cycle management



## TECHNICAL SPECIFICATIONS

---

|                          |                                                                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs                   | 1 HDMI: On a female HDMI connector<br><br>1 IR: On a 3.5mm mini jack. If you want to use the IR extension, it is necessary to order these accessories from Kramer: 3300-500028 PT-5R/T IR receiver cable 2m, 3.5mm mini jack, 3300-500029 PT-5R/T IR emitter cable 2m, and a 3.5mm mini jack |
| Outputs                  | 1 HDMI: On a female HDMI connector<br><br>1 IR: On a 3.5mm mini jack. If you want to use the IR extension, it is necessary to order these accessories from Kramer: 3300-500028 PT-5R/T IR receiver cable 2m, 3.5mm mini jack, 3300-500029 PT-5R/T IR emitter cable 2m, and a 3.5mm mini jack |
| Ports                    | 1 10GbE Ethernet: On an R-J45 connector<br><br>1 Unbalanced Stereo Audio: On a 3.5mm mini jack<br><br>1 1GbE Ethernet: On an R-J45 connector<br><br>1 RS-232: On a 3-pin terminal block connector                                                                                            |
| Video                    | Standards Compliance: 10/12-bit HDR (Point-to-Point and Genlock mode only), HDCP 2.2 & 1.4, DVI 1.0,                                                                                                                                                                                         |
| Extension Line           | Signal Compression: Ultra-light compression, lossless for most content<br><br>Range: Up to 100m in point-to-point mode                                                                                                                                                                       |
| Audio                    | Standards Compliance: Supports pass-through of audio formats including LPCM 2.0/5.1/7.1, Bitstream and HD Bitstream from HDMI sources. Analog audio supports 20 Hz~20 kHz, 24-bit 48 kHz sampling rates                                                                                      |
| POWER:                   |                                                                                                                                                                                                                                                                                              |
| Power                    | Source: 12V DC<br><br>Consumption: 3A<br><br>PoE Budget 25W (not including cable loss)                                                                                                                                                                                                       |
| Environmental Conditions | Operating Temperature: 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing<br><br>Storage Temperature: -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing<br><br>Humidity: 10% to 90%, non-condensing                                                                            |
| Product Dimensions       | 23.10cm x 11.60cm x 2.50cm (9.09" x 4.57" x 0.98" ) W, D, H                                                                                                                                                                                                                                  |
| Product Weight           | 0.5kg (1.1lbs) approx                                                                                                                                                                                                                                                                        |
| Shipping Dimensions      | 35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83" ) W, D, H                                                                                                                                                                                                                                 |
| Shipping Weight          | 1.2kg (2.6lbs) approx                                                                                                                                                                                                                                                                        |



