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
	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
	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
	1 Unbalanced Stereo Audio: On a 3.5mm mini jack
	1 1GbE Ethernet: On an R−J45 connector
	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
	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
	Consumption: 3A
	PoE Budget 25W (not including cable loss)
Environmental Conditions	Operating Temperature: 0 to + 45°C (32 to + 113 °F), 10% to 90%, non−condensing
	Storage Temperature: −20 to +70°C (−4 to + 158 °F), 10% to 90%, non−condensing
	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

KDS-8 as encoder

KDS-8 as decoder

10Gbit/s LAN

Eth

IR

HDMI™ OUT   HDMI™ IN   10Gbit (PoE)   AUDIO   IR OUT   IR IN   RS-232   Tx Rx G   SERVICE   1GbE LAN   12V DC

HDMI™ OUT   HDMI™ IN   10Gbit (PoE)   AUDIO   IR OUT   IR IN   RS-232   Tx Rx G   SERVICE   1GbE LAN   12V DC

HDMI

RS-232

IR

Eth

HDMI

RS-232

Eth

Media Player

4K Display
IR Controller

1G Device

4K Display

Serial
Controller

1G Device

HDMI

Display

Audio

Audio Source

Audio

Amplifier