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## KDS-8F

Zero Latency 4K HDR SDVoE Video Streaming Transceiver over Fiber Optic

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



KDS-8F is a high-performance, zero latency, 4K@60Hz (4:4:4) video streaming transceiver for streaming via Ethernet over single-mode and multi-mode optical fiber. KDS-8F can be set as either an encoder or decoder. As an encoder, it encodes and streams the HDMI or DisplayPort input along with IR, RS-232, analog audio and USB, 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

**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 USB over IP**

**Bi-directional IR and RS-232 over IP** - Control an IR or 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/DisplayPort video source detection, USB connection 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



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## TECHNICAL SPECIFICATIONS

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Inputs	<p>1 HDMI: On a female HDMI connector</p> <p>1 DisplayPort: On a female DisplayPort connector</p> <p>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</p>
Outputs	<p>1 HDMI: On a female HDMI connector</p> <p>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</p>
Ports	<p>1 SFP+ Fiber On LC connector(s) for 10GbE Ethernet (MM SFP+ transceiver module included)</p> <p>1 Unbalanced Stereo Audio: On a 3.5mm mini jack</p> <p>1 1GbE Ethernet: On an R-J45 connector</p> <p>1 RS-232: On a 3-pin terminal block connector</p> <p>3 USB: On female USB type-A connectors</p> <p>1 USB: On a USB mini connector</p>
Video	Standards Compliance: 10/12-bit HDR (Point-to-Point and Genlock mode only), HDCP 2.2 & 1.4, DVI 1.0,
Extension Line	<p>Signal Compression: Ultra-light compression, lossless for most content</p> <p>Maximum Range in Point-To-Point Mode Using OM3 multi-mode fiber – 300m (980ft) / Using OM4 multi-mode fiber – 550m (1800ft) / Using single-mode fiber – 30km (18.6 miles)</p>
Audio	Standards Compliance: Supports pass-through of audio formats including LPCM 2.0/5.1/7.1, Bitstream and HD Bitstream from HDMI sources
Power	<p>Source: 12V DC</p> <p>Consumption: 1A</p>
Accessories	<p>Included Power adapter, multimode SFP+ transceiver module, rubber feet</p> <p>Optional Single-mode SFP+ transceiver module</p>
Environmental Conditions	<p>Operating Temperature: 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing</p> <p>Storage Temperature: -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing</p> <p>Humidity: 10% to 90%, non-condensing</p>
Product Dimensions	20.00cm x 23.10cm x 2.50cm (7.87" x 9.09" x 0.98" ) W, D, H
Product Weight	1.9kg (4.2lbs) approx
Shipping Dimensions	38.20cm x 20.00cm x 7.00cm (15.04" x 7.87" x 2.76" ) W, D, H
Shipping Weight	1.6kg (3.4lbs) approx

