



## KDS-100EN

Open-standard AVoIP 4K@60Hz streaming  
encoder with audio

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KDS-100EN encoder is an advanced transmitter for streaming 4K@60Hz video signals via Ethernet over copper or fiber cables. It encodes and streams over an IP network from HDMI input, and transmits the IR, RS-232, or CEC signals over IP network

## FEATURES

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**Robust Solution for Large-Scale Installations** - Provides an optimized solution for large Education and Enterprise campuses, as well as Defense and Homeland Security Facilities, with support for numerous simultaneous video flows and built-in advanced management capabilities

**Highly Scalable** - The KDS-100 line supports up to 1000 video sources, suited for large-scale installations

**Built-in Resilient Security Features** - Preserves the integrity, availability and confidentiality of the IT network via a highly secured and resilient AVoIP solution.

KDS-100 devices comply with IT security requirements, including 802.1x and HTTPS/TLS

**Simple Planning and Rollout** - KDS-100 is highly bandwidth-efficient, thus enabling cost-efficient hybrid use of the existing 1GE IT network. There is no need to deal with complex IP packets prioritization or switching settings. Offering easy management, high reliability, and adjustable bandwidth control, KDS-100 is extremely cost-effective to maintain over the long term

**Alternative Sources/Destinations** - An HDMI loop-through port on the encoder side and an HDMI input port on the decoder, as well as embedding and de-embedding analog audio to the IP stream



## TECHNICAL SPECIFICATIONS

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| Inputs                   | 1 HDMI: On a female HDMI connector<br><br>1 Balanced Audio: On a 5-pin terminal block connector                                                                                                                                                                                                                                                                    |
| Outputs                  | 1 HDMI: On a female HDMI connector<br><br>1 Balanced Audio: On a 5-pin terminal block connector                                                                                                                                                                                                                                                                    |
| Ports                    | 1 Media / Control LAN PoE On an RJ-45 female connector<br><br>1 RS-232: On a 3-pin terminal block connector for control<br><br>1 RS-232: On a 3-pin terminal block connector for extension<br><br>1 Fiber on an LC Connector: Standard: 1000BASE-SX, 1000BASE-LX                                                                                                   |
| Network                  | 1 GE<br><br>IPv4<br><br>Multicast IGMPv2<br><br>RTP/RTCP Over UDP<br><br>MPEG-TS                                                                                                                                                                                                                                                                                   |
| Video                    | Max Input/Output Resolution: 3840x2160@60Hz 4:4:4                                                                                                                                                                                                                                                                                                                  |
| Video Streaming          | Open Standard: H.264 and H.265<br><br>Max Streaming Resolution: 3840x2160@60Hz 4:2:2<br><br>Secondary Streaming Resolution 1920x1080@60Hz 4:2:2<br><br>Latency Low latency: About 40msec<br><br>Bit Rate Range: 1-60Mbps<br><br>Latency: Normal and low<br><br>Dual Streaming support Primary: Up to 3840x2160@30Hz 4:2:2<br>Secondary: Up to 1920x1080@60Hz 4:2:2 |
| Resolution               | 3840x2160@60Hz<br>3840x2160@30Hz<br>1920x1080@60Hz                                                                                                                                                                                                                                                                                                                 |
| Security                 | HTTPS, 802.1x, OWASP-10                                                                                                                                                                                                                                                                                                                                            |
| User Interface           | Indicators: LINK, NET and ON LEDs, front panel channel number display<br><br>Rear Panel: Recessed factory reset button<br><br>Controls Embedded web pages, P3K API commands via Ethernet, front panel channel selection buttons                                                                                                                                    |
| Power                    | PoE+: IEEE 802.3at<br><br>Source (Optional): 12V DC/5A<br><br>Consumption: 13.6W                                                                                                                                                                                                                                                                                   |
| 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

#### General

Product Dimensions: 21.5cm x 16.3cm x 4.4cm (8.5" x 6.4" x 1.72" ) W, D, H

Product Weight: 0.9kg (2lbs) approx

Shipping Dimensions: 34.50cm x 16.50cm x 5.20cm (13.6" x 6.50" x 2.05" ) W, D, H

Shipping Weight: 1.4kg (3.1lbs) approx

Product Dimensions 21.46cm x 16.30cm x 4.36cm (8.45" x 6.42" x 1.72" ) W, D, H

Product Weight 0.9kg (1.9lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H

Shipping Weight 1.3kg (2.8lbs) approx

