KDS-100EN
Open-standard AVoIP 4K@60Hz streaming
encoder with audio

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

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

Inputs	1 HDMI: On a female HDMI connector
	1 Balanced Audio: On a 5-pin terminal block connector
Outputs	1 HDMI: On a female HDMI connector
	1 Balanced Audio: On a 5-pin terminal block connector
Ports	1 Media / Control LAN PoE On an RJ-45 female connector
	1 RS-232: On a 3-pin terminal block connector for control
	1 RS-232: On a 3-pin terminal block connector for extension
	1 Fiber on an LC Connector: Standard: 1000BASE-SX, 1000BASE-LX
Network	1 GE
	IPv4
	Multicast IGMPv2
	RTP/RTCP Over UDP
	MPEG-TS
Video	Max Input/Output Resolution: 3840x2160@60Hz 4:4:4
Video Streaming	Open Standard: H.264 and H.265
	Max Streaming Resolution: 3840x2160@60Hz 4:2:2
	Secondary Streaming Resolution 1920x1080@60Hz 4:2:2
	Latency Low latency: About 40msec
	Bit Rate Range: 1-60Mbps
	Latency: Normal and low
	Dual Streaming support Primary: Up to 3840x2160@30Hz 4:2:2 Secondary: Up to 1920x1080@60Hz 4:2:2
Resolution	3840x2160@60Hz 3840x2160@30Hz 1920x1080@60Hz
Security	HTTPS, 802.1x, OWASP-10
User Interface	Indicators: LINK, NET and ON LEDs, front panel channel number display
	Rear Panel: Recessed factory reset button
	Controls Embedded web pages, P3K API commands via Ethernet, front panel channel selection buttons
Power	PoE+: IEEE 802.3at
	Source (Optional): 12V DC/5A. Unit has to be supplied by a power supply specified as a Limited Power Source (LPS) or PS2 source of supply
	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