

KDS-EN7

High-performance, highly-scalable, AVoIP Encoder for 4K over 1G network

| HDMI | Ethernet - RJ-45 | HDCP 2.2 Compatible



KDS-EN7 encoder is an advanced transmitter for streaming 4K video signals via Ethernet over copper cable. It encodes and streams over an IP network from HDMI input, and transmits the USB, IR, RS232, or CEC signal over IP network

FEATURES

Outstanding end-user experience -

Rich set of inputs and interfaces

Easy-to-use KM/KVM - Searchable OSD Menu for KM and fully configurable KVM roaming Large scale video wall - up to 16x16

Instantaneous switching time - 1 second

Ideal for large-scale deployments -

Highly scalable - 999 channels build in support

State of the art management device

Rich set of management capabilities - Standard P3K Open API, LCD screen for configuration

Robust security -

Enterprise IT-grade security - 802.1x and HTTPS/TLS

Security certification - OWASP Top 10 certificate

Separate ETH ports for optimal security and experience

New HW architecture that enables robust FW update

Simple planning and rollout: -

Cost-effective from day one

Full product range for any site, any application

Plug-and-play with Netgear M4250 AVoIP switches, Kramer Control, etc.

PoE Support -

Using PoE switch – up to 13W consumption

Alternative sources/destinations -

HDMI Loop-Through on Encoder and HDMI Input on Decoder

Analog Audio -

Embedding and De-embedding

Control gateway - Through P3K control/communicate with IR, RS232, or CEC to the connected devices

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TECHNICAL SPECIFICATIONS

Inputs 1 HDMI: On a female HDMI connector

Outputs 1 HDMI: On a female HDMI connector

Ports 2 Ethernets: On RJ-45 connectors

1 Balanced Audio: On a 5-pin terminal block connector

1 RS-232: On a 3-pin terminal block connector

1 IR: On a 3.5mm TRS connector

1 USB Host: On a USB-B connector

USB Features Integrated USB Hubs 1-layer USB Hub when connecting to KDS-DEC7

Network Multicast: Through RTSP (Real Time Streaming Protocol): IGMP snooping

non-blocking, Layer 2

Unicast: Through RTSP (Real Time Streaming Protocol)

Bitrate: Peak: 850Mbps, 4K average: 350Mbps, 1080p average: 250Mbps

Video Compression Standard: JPEG based, private stream

Max Resolution: 4K@30Hz 4:4:4

Video Streaming Compression Standard: JPEG2K based, proprietary stream

Max Input Resolution: 4K@60hz (4:2:0)

Max Output Resolution: 4K@30hz (4:4:4)

Max End-to-End Resolution: 4K@30hz (4:4:4)

Scaler: Yes

End-to-End Latency: 33msec

Switching Time: 1sec

Resolution 4096x2160@60Hz, 1600x1200@60Hz, 1280x960@60Hz, 848x480@60Hz,

3840x2160@60Hz, 1600x900@60Hz, 1280x800@60Hz, 800x600@60Hz, 1920x1200@50Hz, 1440x900@60Hz, 1280x768@60Hz, 720x576@60Hz, 1920x1080@60Hz, 1400x1050@60Hz, 1280x720@60Hz, 720x480@50Hz, 1856x1392@60Hz, 1366x768@60Hz, 1224x768@70Hz, 640x480@60Hz, 1792x1344@60Hz, 1360x768@60Hz, 1152x864@70Hz, 640x400@85Hz,

1680x1050@60Hz, 1024x768@60Hz, 640x350@85Hz

Audio Supported Formats LPCM, Dolby, DTS

LPCM LPCM upto 7.1/24-bit/192kHz

Dolby Dolby AtmosTM, Dolby TrueHD, Dolby Digital PlusTM, Dolby Digital EX,

Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0

DTS DTS-HD Master AudioTM, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix

6.1, DTS Digital Surround 5.1

Security HTTPS, 802.1x, OWASP-10, AES-128 encryption of AV streaming with

changeable key

User Interface Indicators: LINK, NET and ON LEDs, front panel LCD Display

Controls: Restart and factory reset rear panel button, embedded web pages, P3K

API commands via Ethernet, front panel navigation buttons

Power PoE (Power over Ethernet) Operating voltage range 37V~57V, max power 13W

Optional power supply 24V DC, 5A

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 $18.90 \text{cm} \times 14.50 \text{cm} \times 2.76 \text{cm} (7.44 \text{"} \times 5.71 \text{"} \times 1.09 \text{"}) \text{ W, D, H}$

Product Weight 0.7kg (1.5lbs) approx

Shipping Dimensions 31.20cm x 17.90cm x 7.60cm (12.28" x 7.05" x 2.99") W, D, H

Shipping Weight 0.9kg (2.1lbs) approx



