KDS-EN7 encoder is an advanced transmitter for streaming 4K@60Hz (4:2:0) 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, KDS-USB2, 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

Through P3K control/communicate with IR, RS232, or CEC to the connected devices
## TECHNICAL SPECIFICATIONS

### Inputs
- 1 HDMI:

### Outputs
- 1 HDMI: On a female HDMI connector

### Ports
- 2 Ethernets: On R–J45 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

### Video
- Compression Standard: JPEG based, private stream
- Max Resolution: 4K60 4:2:0 or 4K30 4:4:4
- HDR 10: Up to 4K30 4:2:2 12 bit

### 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 on LAN(PoE) port
- 24V DC
- Consumption: 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: 18.9cm x 14.5cm x 2.76cm (7.4“ x 5.7” x 1”) W, D, H
- Shipping Dimensions: 31.2cm x 17.9cm x 7.6cm (12.2“ x 7.04” x 2.9”) W, D, H
- Product Weight: 0.67kg (1.4lbs) approx
- Shipping Weight: 0.93kg (2.05lbs) approx

### Dimensions
- 18.90cm x 14.50cm x 2.76cm (7.44“ x 5.71” x 1.09“) W, D, H
- 0.7kg (1.5lbs) approx
- 31.20cm x 17.90cm x 7.60cm (12.28“ x 7.05” x 2.99“) W, D, H
- 0.9kg (2.1lbs) approx