The KDS-EN6 encoder provides streaming over an IP network that carries 4K@60Hz (4:2:0) video, audio, IR, RS-232, USB over IP with HDCP 2.2 in unicast (one-to-one) or multicast (many-to-many) configurations.

**FEATURES**

- **Video Support** - HDMI 4K@60Hz (4:2:0)
- **Audio Support** - HDMI/line in, 7.1 PCM, Dolby True-HD, and DTS-HD Master audio
- **Virtualization** - IR, USB, RS-232 over IP
- **Network** - Switch 1G multicast IGMP snooping managed layer 2
- **Power** - PoE or external power supply (not included)
- **HDCP** - 1.4 and 2.2 compliance
- **Video Effects** - Video Wall – 1 to 256 screens
## Technical Specifications

### Inputs:
- 1 HDMI connector, 1 unbalanced stereo audio on a 3.5mm mini jack (line in), 1 RS−232 on terminal block connectors, 1 USB (type B) port, 1 IR on 3.5mm mini jack (Rx)

### Outputs:
- 1 Ethernet (LAN/PoE) on an RJ−45 connector, 1 IR on 3.5mm mini jack (Tx)

### Network:
- 10M/100M/1000M

### Network Switch:
- 1G multicast, IGMP snooping non−blocking, Layer 2

### Streaming:
- Unicast and multicast through RTSP (Real Time Streaming Protocol)

### Controls:
- Reset button, up and down channel buttons, channel 7−segment display, STATUS, LINK and ON LEDs

### IR:
- Wide−band 20kHz to 60kHz bidirectional IR transmission

### Video Encoding/Decoding:
- Compression standard JPEG 2000

### HDCP:
- HDCP 1.4 and 2.2

### Scaling and Cropping:
- Built in scaling and cropping for flexible display of source content on the decoder output

### Bit Rates:
- Peak: 850Mbps, 4K average: 350Mbps, 1080p average: 250Mbps

### Resolution:
- 4096x2160@60Hz, 3840x2160@60Hz, 1920x1200@60Hz, 1920x1080@60Hz, 1792x1344@60Hz, 1728x1080@60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1600x1050@60Hz, 1536x960@60Hz, 1440x900@60Hz, 1440x720@60Hz, 1440x480@60Hz, 1366x768@60Hz, 1280x1024@60Hz, 1280x768@60Hz, 1280x720@60Hz, 1280x480@60Hz, 1024x768@60Hz, 1024x720@60Hz, 1024x576@60Hz, 1024x480@60Hz, 848x480@60Hz, 800x600@60Hz, 768x480@60Hz, 720x576@60Hz, 720x480@60Hz, and 640x480@60Hz, 640x400@60Hz, 640x350@60Hz

### Audio Encoding/Decoding:
- Compression standard (analog in/out): AAC−LC

### Channels (HDMI embedded Audio):
- PCM 2, 5.1, 7.1 Channel, Dolby Digital 5.1 Channel, Dolby Digital Plus, Dolby Digital True−HD, DTS 5.1 Channel, DTS−ES, DTS−HD High Resolution, DTS−HD Master Audio

### Power
- Source PoE or 48V DC external power supply (not included)
- Typical Consumption 140mA max

### Environmental Conditions
- Operating Temperature: 0° to +40°C (32° to 104°F)
- Storage Temperature: −40° to +70°C (−40° to 158°F)
- Humidity: 10% to 90%, RHL non−condensing