

## 4K Enterprise AV™ Over IP Solutions

**ENTERPRISE AV™ OVER IP**  
AUDIO/VIDEO/CONTROL SOLUTIONS

Key Digital's Enterprise AV™ over IP solutions create expandable HDMI over IP systems that can be scaled to fit any commercial installation.

**KEY digital** PRO  
MANAGEMENT SOFTWARE

**KEY DIGITAL**  
APP READY

# KD-IP822ENC

4K Enterprise AV™ over IP Encoder, PoE, HDMI Pass-Thru, 2x IR/RS-232 ports

### KEY FEATURES

- » **Enterprise AV™ Over IP:** Utilizes a managed gigabit network switch to enable video distribution, matrix switching, and extension
- » **Inter-System Compatibility:** Fully compatible with KD-IP922ENC and DEC units / systems
- » **Video Wall Processing:** Encoder + Decoder systems create video walls with up to 4 total displays. Use KD-IP922DEC for larger video wall configurations
- » **Control:** 2 multi-function ports may be used as third-party control interface, Compass Control® Pro master controller, control extension via IP, or callable via KeyCode open API
- » **Key Digital® App Ready:** Network scan & detect populates pre-built GUI including image preview
- » **HDCP 2.2:** Compliancy up to HDCP 2.2 and backward compliant
- » **4K/Ultra HD Resolution:** Support for 4096x2160 or 3840x2160 24/25/30Hz at 4:4:4/8 Bit or 60Hz at 4:2:0/8 Bit
- » **4K Down-scale:** Incoming 4K resolution can be down-converted to 1080p or 720p at each decoder, enabling monitors to display content at optimal resolution at all times
- » **Signal Extension:** Up to 330 ft. / 100 m @ 4K 24/25/30(4:4:4)/60(4:2:0) into network switch or to point-to-point
- » **Power over Ethernet:** Does not require power supply when integrated with compatible PoE network switch
- » **Redundant Power Connection:** Added reliability for non-PoE integration. Power supply sold separately
- » **Data Stream Bandwidth:** < 900Mbps
- » **Latency:** <40ms at 4K. Less at lower resolution.
- » **Installation:** Use KD-SMS16 to cleanly install up to twelve KD-IP822ENC/DEC units in rack
- » **HDMI® and HDCP Licensing:** Fully licensed and compatible with HDCP 2.2 and HDMI latest technology such as 4K/UHD 4:2:0/8bit at 60 f/s

» ENCODER



- » **EDID Control:** Internal library features 15 default EDID configurations and native EDID data from Output/Display devices connected to Decoder
- » **Hot Plug Detection Control:** Enables integrator to choose if active signal voltage is forced to connected input devices
- » **Full Buffer System™:** Manages TMDS re-clocking / signal re-generation, HDCP authentication with source & display, EDID Control handshake, and Hot Plug control
- » **IR Sensor:** Sensor powering via +5V IR In port collects line-of-sight IR from remote(s) without external IR connecting block
- » **Up/Down IR:** Two channels of IR enable control to/from devices connected to Encoder and Decoder units
- » **RS-232:** Bi-Directional control to/from Encoder and Decoder unit on Phoenix connector
- » **RS-232/TCP-IP Control Mode:** Provides control of unit as well as connectivity status
- » **Lossless compressed digital audio:** Support for Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD Master Audio™
- » **Control System Support:** Controllable by all IR, RS-232 & TCP/IP supported control systems via open API: Compass Control® Pro, AMX®, Control4®, Crestron®, KNX®, RTI®, Savant, URC®, Leviton® etc.

### SPECIFICATIONS

- » Regulation: CE, RoHS, WEEE, EAC
- » Enclosure: Black Metal
- » Product (Each): 7.5" x 5.59" x 0.85", Weight: 0.7 lbs

Digital Video Matrix

Digital Video Distribution System

Digital Video Switcher

**Video Wall Controller**

Digital Video Extender

Master Controller

