## 4K Enterprise AV<sup>™</sup> Over IP Solutions

**ENTERPRISE AV**<sup>™</sup> OVER IP Key Digital's Enterprise AV<sup>™</sup> over IP solutions create expandable HDMI audio/video/control solutions over IP systems that can be scaled to fit any commercial installation.

## KD-IP922ENC

Enterprise AV<sup>™</sup> over IP Encoder, supports 4K, 2 PoE ports LAN Switch, HDMI Pass-through,

Audio In, Audio De-Embedding with Lip-Sync & DSP, KVM/USB

- Enterprise AV Over IP: Utilizes a managed gigabit network switch to enable video distribution, matrix switching, and extension. <u>Visit product page for Usage Modes</u>.
- Video Wall Processing: Encoder + Decoder systems create video walls with up to 10V and 10H monitors
- > 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
- Signal Extension: Up to 330 ft. / 100 m @ 4K 24/25/30(4:4:4)/60(4:2:0) into network switch or point-to-point
- Power over Ethernet: Does not require power supply when integrated with compatible PoE network switch
- > Dual LAN: Enable system expansion beyond a 48 port system
- > Redundant Power Supply: Added reliability for non-PoE integration
- Audio De-Embedding: Audio from the HDMI input is de-embedded through Analog L/R Balanced/Unbalanced phoenix terminal to enable external audio connectivity with audio distribution systems and amplifiers
- Audio DSP: Volume, muting, 3-band EQ, and lip-sync delay controllable on audio de-embed port
- > HDMI Pass-Through: Enables connection to local monitor or additional devices up to 75 ft.
- > 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 60f/s
- > Control: 3 multi-function ports controllable via KeyCode open API, as Compass Control® master controller, or as control extension via IP
- > USB 2.0: Supports synchronous and isochronous connections
- > 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



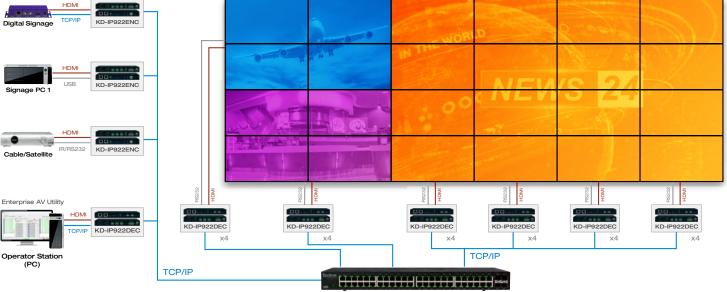
> Full Buffer System<sup>™</sup>: Manages TMDS re-clocking / signal re-generation, HDCP authentication with source & display, EDID Control handshake, and Hot Plug control

- 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<sup>®</sup> TrueHD, Dolby<sup>®</sup> Digital Plus, Dolby Atmos<sup>®</sup>, and DTS-HD Master Audio<sup>™</sup>
- Required Network Cabling: CAT6 UTP/STP, CAT6A, CAT7. Shielded cabling requires shielded RJ45 connectors on both ends.
- > I2C Communication: EDID and HDCP authentication to Display and Source
- Control System Support: Controllable by all IR, RS-232 & TCP/IP supported control systems via open API: Compass Control<sup>®</sup> Pro, AMX<sup>®</sup>, Control4<sup>®</sup>, Crestron<sup>®</sup>, KNX<sup>®</sup>, RTI<sup>®</sup>, Savant, URC<sup>®</sup>, Leviton<sup>®</sup> etc.
- > Key Digital® App Ready: Can be controlled over TCP/IP via Key Digital® iOS App
- > Data Stream Bandwidth: < 900Mbps
- > Latency: <40ms at 4K. Less at lower resolution.

## Specifications

- » Regulation: CE, RoHS, WEEE » 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 KVM Matrix Master Controller



Managed Gigabit Switch

