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-IP922ENC

Enterprise AV™ over IP Encoder, supports 4K, 2 PoE ports LAN Switch, HDMI Pass-through, Audio In, Audio De-Embedding with Lip-Sync & DSP, KVM/USB

≫ENCODER

4K

HDCP 2.2

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

› **Enterprise AV Over IP:** Utilizes a managed gigabit network switch to enable video distribution, matrix switching, and extension. _Visit product page for Usage Modes._

› **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™:** 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™

› **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® Pro, AMX®, Control4®, Crestron®, KNX®, RTI®, Savant, URC®, Leviton® 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