KanexPro®

3 YEAR WARRANTY — THREE YEAR WARRANTY

4K ULTRA HD

NetworkAV™ over IP Encoder w/ POE & RS-232

Create a Matrix of Inputs & Outputs with Multi-view over IP and Control from Anywhere

MPN: EXT-NETAVTX

The **KanexPro EXT-NETAVTX** is an AV over IP encoder/ sender with one HDMI input , one local HDMI output, phoenix connectors for audio in and out and a LAN (Ethernet) port with RS-232 control port. The encoders uses advanced H.264 compression algorithm to transmit full HD 1080p/60 from HDMI based devices with lossless video and audio with latency up to 1.5 milliseconds. It supports POE (power over Ethernet) when connected with a POE network switch with distances over a single CATx up to 330 ft. (100m) delivering one to one, one to many and many to many over the Ethernet switch.

Compliant with HDCP, this encoder can be combined with our decoder – **EXT-NETAVRX** offering a complete configurable high quality, low-bandwidth H.264 video supporting resolutions up to 1920x1080@60fps. It's a great solution for those looking to upgrade the traditional DVI/HDMI matrix switchers.

Applications:
Ideally used for digital signage in bars, restaurants, house of worship centers, large university campuses and in corporate AV signage where sending high resolution video and audio is critical.

Video Wall function & Multi-View:
Create a 3x3 video wall or multi-view by adding multiple decoders to your application. They instantly display and have lossless video for critical video applications. They can all be controlled by a central web based GUI.

A Central Control System for all your Switching & Controlling Needs:
One to many, or many to many, the EXT-NETAVTX offers one central control over web GUI to manage all your sources and displays. The controller is built-in to the Encoder (transmitter) which will manage all your HDMI sources and display devices using Web GUI, mobile app or any third-party control system.

FEATURES

- Encode AV over IP up to 330ft. (100m)
- Create a Video Wall or a Multiview experience with 100's of screens
- Local HDMI output on sender with Audio IN
- Unicast, Multicast, Matrix, Video Wall and Multi-viewer (up to 5 windows)
- Unlimited scalability (based on network topology)
- Low 1.5 frames per second latency
- Video resolution up to 1080p/60Hz (4:4:4)
- POE supported requiring no power supplies when used with POE switch
- Supports Audio Embedding on the encoder
- Works with 1G standard IP switch
- Works with H.264 IP Camera
- H.264 Encoding/Decoding compression
- Control via RS-232 & Web-based GUI controller built-into the Encoder
- Compact design for an easy and flexible installation to rack
- Backed by KanexPro 3-year parts and labor warranty

SPECIFICATIONS

Technical:
- HDMI Compliance: HDMI 1.4b
- HDCP Compliance: HDCP 1.4
- Video Bandwidth: 4.95 Gbps

- Video Resolutions: 640x480p@60Hz ~ 1920x1080p@60Hz
- Output Video Type: H.264/MPEG-4 AVC
- Encoding Data Rate: Up to 30Mbps, configurable
- Color Space: RGB, YCbCr 4:4:4, YCbCr 4:2:2
- Color Depth: 8-bit
- HDMI Audio Formats: LPCM 2CH, 48KHz
- L/R Audio Formats: Analog Stereo 2CH
- ESD Protection: Human body model +- 8kV (air-gap discharge) & +- 4kV (contact discharge)

Connections:

Encoder:

Inputs:
- 1x HDMI Type A (19-pin female)
- 1x L/R Audio In (3.81mm Phoenix connector)
- 1x RS-232 (3.81mm Phoenix connector)

Outputs:
- 1x LAN (RJ45 connector)
- 1x HDMI Type A (19-pin female)
- 1x L/R Audio Out [3.81mm Phoenix connector)
- 1x Debug (3.81mm Phoenix connector)

Decoder:

Inputs:
- 1x LAN (RJ45 connector)

Outputs:
- 1x HDMI Type A (19-pin female)
- 1x L/R Audio Out (3.81mm Phoenix connector)
- 1x RS-232 (3.81mm Phoenix connector)
- 1x Debug (3.81mm Phoenix connector)

Mechanical:
- Housing: Metal Enclosure
- Color: Black
- Dimensions: 200mm [W] x 103mm [D] x 20mm [H]
- Weight Encoder: 530g Decoder: 526g
- Power Supply: 100 ~ 240 V AC, 50/60 Hz
- Maximum Power Consumption: 10 watts
- Operation Temperature: Input: AC100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
- Power Consumption: Encoder: 5.7W (Max) Decoder: 5.6W (Max)
- Operation Temperature: 32 - 104°F / 0 - 40°C
- Storage temperature: -4 - 140°F / -20 - 60°C
- Relative Humidity: 20 - 90% RH (no condensation)