KanexPro®

NetworkAV™ H.264 HDMI® Transmitter over IP w/ POE & RS-232

Send HDMI® Audio & Video over an Ethernet network to multiple screens

MPN: EXT-AVIPH264TX

The **KanexPro EXT-AVIPH264TX** is an AV over IP transmitter with an HDMI input and Ethernet out which uses advanced H.264 compression algorithm to transmit full HD 1080p from HDMI based sources with less bandwidth over LAN network. It supports PoE (power over Ethernet) with distances over a single CATx up to 394 ft. (120m) delivering one to one, one to many and many to many over the Ethernet switch.

Applications:

Ideal for digital signage and networked AV applications where full HD 1080p can be passed over IP network delivering full audio, video, power, data and control using a single Ethernet cable.

FEATURES

- Encode and extend pure 1080p resolutions up to 394' / 120 meters
- Features real-time AV coding and decoding to broadcast 1080p
- H.264 Compression technology
- Can be used with DVI connection
- Supports one to many, many to many and point to point broadcasting
- Dual power input: 802.3af compliant w/ POE & DC 5V
- (No need power supply when connecting with POE Switch)
- Can be cascaded to multiple AV over IP Extenders
- Support LPCM audio format
- Smart IP Address Setting: Dynamic Host Configuration Protocol (DHCP)
- Wide-band IR pass through to control the source (38khz to 56khz)
- By pass 2 - way UART/RS232 (Up to 115200), use remote controller to select 8 group Baud rate
- Support one to one, one to many, many to one, many to many modes, with large cascading

SPECIFICATIONS

Performance
- Protocol: H.264 encoder over TCP/IP
- Supported Video formats: 480i/480p/576i/576p/720p/1080i/1080p@60HZ
- Supported Audio formats: LPCM, Audio sampling rate 48KHz
- Streaming Bit Rate: 15Mbps
- HDCP Compliant
- IR Frequency 38 -56 KHz
- RS232 Baud rate: Default 2400bps, total 8 options

IP setting & Group ID settings

Default IP:
- TX: 192.168.1.11
- RX: 192.168.1.12
- Group ID Group 00 ~ group 63
- Request for Switch/Router Support: IGMP, supports DHCP

Connectors on Transmitter
- Input 1xHDMI Female port
- Output 1x RJ45 output, 1x HDMI looping output
- RS232 Phoenix RS232 port IR IR TX port (Support 38K-56KHz)

- IR Ext port (Support 38KHz)

Connectors on Receiver

- Input 1xRJ45 input
- Output 1x HDMI Female port looping output
- RS232 Phoenix RS232 port
- IR IR RX port (Support 38K-56KHz)
- IR Ext port (Support 38KHz)

Environmental & Power RequirementsEnvironment

- Operating temperature: -5 to +35 C (+23 to +95 F)
- Operating Humidity Range: 5 to 90%RH (No Condensation)
- Power supply: DC 5V 1A
- Power consumption: Max 3 watts

Physical Dimensions:

- Tx:119x79.5x28mm
- Rx: 119x79.5x28mm
- Net Weight TX: 0.28Kg RX:0.28Kg

Supported Input Resolutions:

Frequency	Resolution
50Hz	576i
	576P
	720P
	1080P
	1080i
60Hz/59.94Hz	480i
	480P
	720P
	1080P
30Hz/29.97Hz	1080P
24Hz	1080P
25Hz	1080P

VESA Resolutions:

Frequency	Resolution
50Hz	576i
	576P
	720P
	1080P
	1080i
60Hz/59.94Hz	480i
	480P
	720P
	1080P
30Hz/29.97Hz	1080P
24Hz	1080P
25Hz	1080P

Helpful Tips & Recommendations:

- Solid core CAT5e/6 or greater with TIA/ EIA-568B crimp pattern
- Do not share ground connection with display
- Shielded CAT5/6 with metal RJ-45 connectors are recommended to safeguard against random video flashes caused by electromagnetic interference (EMI).
- If the power LED indicator on the Tx/Rx unit is not on, check to make sure that the CAT5/6 cables are not crossed i.e., Ethernet to Link instead of Ethernet to Ethernet.