

AV Over IP Scaling Multimedia Extender with USB KVM, PoE and Audio Embedding



Description

VINX-120AP-HDMI-ENC is a LAN based encoder multimedia device to extend HDMI video from a local source to a remote sink. The VINX encoder and decoder devices connect either via a direct CATx cable connection or through a Gigabit Ethernet switch in between. The maximum delivery distance can reach to up to 100 m (or more when appropriate SFP module is used) with minimal latency and employing a quality, proprietary wavelet transform based image compression.

The maximum supported resolution is 3840 x 2160 @ 30Hz with 7.1 audio.

VINX devices support both static and dynamic (DHCP) IP address settings. 100 factory EDID presets and five user EDIDs are stored in the encoder. These units feature embedded web for control.

Front panel DIP switches serve quick manual setting for pairing maximum 15 encoder devices to decoders over the network, a quick and easy installation advantage for digital signage applications. Gap and bezel compensation can be adjusted for video walls. Scaling is available on the decoder side. With the help of the VINX Video Wall Wizard, installation of a video wall can be reduced to one tenth of the usual time needed when using similar, third party products.

Network Requirements

1GbE network with Layer 2.5 switch (IGMPv2, IGMP Snooping, IGMP Fast Leave, Jumbo Frame Support, Multicast Filtering).

Highlight Features

- 3840 x 2160@30Hz resolution over a 1 Gigabit network with very low latency
- Up to HDMI 1.4 4K 2160p@60Hz 4:2:0 Video Input supported
- Audio supports LPCM and Dolby Digital /Dolby Digital Plus/DTS/ Dolby TruHD/DTS-HD bit stream
- HDCP compliant
- PoE remote powering via 1GbE Ethernet port
- Audio embedding from analog audio input
- Local HDMI port for monitoring or looping on the TX
- Variable maximum bit rate (10 Mbps ~ 800 Mbps)
- USB pass-thru for IP KVM application
- LED feedbacks, DIP switches and physical buttons for quick and easy setup and operation
- Embedded web control, direct and networked control via PC
- The device can be controlled via Lightware's proprietary LW3 protocol commands
- Automatic and manual selection to transmit analog audio or HDMI audio
- No acoustic noise

Recommended Applications

- Shopping malls and video walls
- Sports bars
- Schools/universities
- Server farms (KVM)
- Corporate meeting rooms
- Multiroom ocean cruisers

VINX Variant Comparison Table

	VINX-120-HDMI-ENC	VINX-120AP-HDMI-ENC	VINX-120AP-HDMI-ENC-DNT	VINX-210AP-HDMI-ENC		
AV Ports of Encoders						
HDMI input	✓	✓	✓	✓		
VGA input	✗	✗	✗	✓		
HDMI local output	✓	✓	✓	✗		
Analog audio input	✗	✓	✓	✓		
Dante / AES67 Audio output	✗	✗	✓	✗		
	VINX-110-HDMI-DEC	VINX-110AP-HDMI-DEC				
AV Ports of Decoders						
HDMI output	✓	✓				
Analog audio input	✗	✓				
	VINX-120-HDMI-ENC	VINX-120AP-HDMI-ENC	VINX-120AP-HDMI-ENC-DNT	VINX-210AP-HDMI-ENC	VINX-110-HDMI-DEC	VINX-110AP-HDMI-DEC
Ethernet and Control Ports						
RJ45 Ethernet	✓	✓	✓	✓	✓	✓
SFP Ethernet	✗	✓	✓	✓	✗	✓
RS-232	RJ12	9-pole D-sub	9-pole D-sub	9-pole D-sub	RJ12	9-pole D-sub
USB	Mini USB Type B	USB Type B	USB Type B	USB Type B	4x USB Type A	4x USB Type A
Video Features						
Image resolution	3840 x 2160 @ 30Hz	3840 x 2160 @ 30Hz	3840 x 2160 @ 30Hz	3840 x 2160 @ 30Hz	3840 x 2160 @ 30Hz	3840 x 2160 @ 30Hz
EDID Management	Advanced Management	Advanced Management	Advanced Management	Advanced Management	Transparent	Transparent
HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 2.2
Scaling	✗	✗	✗	✗	✓	✓
Powering and Mounting						
Local Power	5V	12V	12V	12V	5V	12V
Acoustic Noise	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB
PoE Remote powering	✗	✓	✓	✓	✗	✓
RU Width for rack mounting	1/4	1/2	1/2	1/2	1/4	1/2
Power Rack Tray compatibility	✓	✗	✗	✗	✓	✗