

AV Over IP Scaling Multimedia Extender with USB KVM, PoE and DANTE/AES67 support



Description

VINX-120AP-HDMI-ENC-DNT 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.

While this VINX device can **embed audio from the analog audio input** to the signal stream, it can also **de-embed audio to the dedicated RJ45 port connector complying with Dante or AES67 audio specification**.

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
- Audio de-embedding to the dedicated RJ45 port connector complying with the Dante or AES67 standards
- HDMI Stereo embedded Audio can be de-embedded and converted to 2 channel Dante streams. Multichannel or Dolby or DTS compressed audio to Dante conversion is not featured.
- 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	5V	5V	5V	5V	5V
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	✓	✗	✗	✗	✓	✗