

AMX SVSI NMX-ENC-N3312D

4K60 H.26x/Dante AV-H & H.26x Dual-Stream Encoder

AMX-N33E001 (Stand Alone)
AMX-N33E001C (Card Version)



The AMX NMX-ENC-N3322D Encoder

Overview

The AMX SVSI NMX-ENC-N3312D Encoder delivers the highest quality 4K60 H.26x and Dante AV-H video content at the lowest bandwidth. This extends the reach of SVSI 4K60 networked AV solutions to the WAN for streaming, video to desktop, digital signage, set-top boxes, or mobile device applications.

In addition to transmitting HDCP content to N3300 decoders, it also features recording of video to a USB 3.0 external drive, video preview images viewable from the built-in web interface or from a touch panel, and enhanced support for high-security networks. N3300 Encoders simultaneously output up to 4K60 H.26x or Dante AV-H on the primary stream and a high-compatibility H.26x secondary video stream to provide design flexibility and the most compatible options for remote viewing or recording.

The NMX-ENC-N3312D supports Dante AV-H, a standard for AVoIP devices created to allow for the interoperability of multiple devices on the network. With Dante AV-H, the NMX-ENC-N3312D is compatible with Dante Studio, a suite of software tools for PC, that allows you to monitor or bring video directly into UC, recording, production, or streaming applications without the need for additional hardware. Dante Controller handles all device routing, naming and configuration, while Dante Domain Manager provides IT-level management over device organization, user access, multiple subnet coordination and complete audit logs for every endpoint and user.

Additionally, the H.264 stream generated by the NMX-ENC-N3312D is compatible with N3000 series decoders, N2600S decoders, and the NMX-WP-N3510 Windowing Processor.

Moving 4K60 video to or from the Cloud just became a lot easier with the AMX SVSI NMX-ENC-N3312D Encoder.

Features

- High-quality 4K60 H.26x or Dante AV-H primary stream
- High-compatibility H.26x secondary stream
- Audinate® Dante AV-H support of up to 4K60 resolutions
- Video Preview viewable from the built-in web interface or a touch panel
- Dante Audio
- USB 3.0 video recording capability
- Support for high-security networks
- PoE+ powered with low-power mode for energy savings.
- Stand-alone box and card form factors

Specifications

VIDEO	
Digital Video Input	Network video over Ethernet via RJ45 port
Digital Video Output	HDMI 2.0
Formats	HDMI 2.0, HDCP 2.2 content protection support
Progressive Input Resolutions	Supports most common HD resolutions up to 4K60 4:4:4
Output Resolutions	720p, 1080p, 4K60, or input resolution if the scaler is disabled
Output Scaling	Scaling adds one frame of latency (17ms at 60fps)
Color Space	4:4:4, YUV
LocalPlay/HostPlay	8 playlists
Network Video Recording	H26x stream is compatible so long as the source is not HDCP.

H264/H265 VIDEO	
Stream Video Output	Up to 4K60 4:4:4
Frame Rate	50 or 60 Hz
Profiles	H264: Baseline (BP), main (MP), high (HiP) H265: main (MP)
Bitrate Range	500 Kbps to 32 Mbps
Rate Control	VBR CBR
Streaming Protocols	RTP, RTSP, RTMP, RTMP/S, SRTP, Dante AV-H

AUDIO	
Input Signal Types	Network audio over ethernet
Output Signal Types	Embedded audio on HDMI or Analog Audio Output
HDMI Audio Formats	8ch PCM, Dante 2ch
Analog Audio Format	Stereo 2-channel
Audio Breakaway	Supported

LATENCY	
Latency	Synced to video Latency: TBDms
Switching	Approximately TBD seconds

COMMUNICATIONS	
Ethernet	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP and Static IP
HDMI	HDCP, EDID management

PORTS	
+12V 2A	One 12 Volt DC power input
PO PoE+	8-wire RJ45 port 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port Provides network connection, network AV video, and power to the Encoders and Decoders PoE+ power
P1	8-wire RJ45 port 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port Provides network connection, network AV video
IR IN (front panel)	3-pin terminal Phoenix connector. Provides Infrared (IR) input only and passes signal back to connected decoder (33-60 kHz; typically, 39 kHz) IR receiver is necessary (not included)
IR OUT	2-pin terminal Phoenix connector Provides Infrared (IR) output only (33-60 kHz; typically, 39 kHz). Emitter is necessary (not included)
RS232	3-pin terminal Phoenix connector which provides a serial control interface. Full duplex communication. Available terminal speed settings: 1200-115200 baud rate
AUDIO	5-pin terminal Phoenix connector which provides user-selectable balanced/unbalanced output Dedicated audio input
HDMI OUT	HDMI video output (passive pass-through from HDMI IN only)
HDMI IN 1	HDMI video input
HDMI IN 2	HDMI video input
USB 3.0	Allow up to 2TB external hard drive for recording of non-HDCP content.

CONTROLS AND INDICATORS – FRONT PANEL	
RESET Button	Recessed pushbutton Press to initiate a 'warm restart' causing the processor to reset, but not lose power. A reset does NOT affect the current settings
ID Button	Recessed pushbutton Press to send a notification out on the network to identify the unit (the notification causes a pop-up dialog in N-Able and N-Command) Holding the button for 30 seconds and releasing will cause the device to return to factory configuration.
POWER LED	On solid (green) when operating power is supplied (via PoE or local power supply)
STATUS LED	On flashing (green) when there is software activity
STREAM LED	On (green) when the unit is streaming video

POWER SUPPLY	
Power Supply, External, Optional	2.0 Amp @ 12 Volts DC; 100-240 Volts AC power supply; optional NMX-ACC-N9312 (FGN9312)
Power over Ethernet (PoE), External, Optional	<p>Can be powered via a PoE+ switch or other equipment with a PoE+ source. Conforms to IEEE 802.3at Class 4 (802.3at Type 2)</p> <p>NOTE: For the unit to receive Power over Ethernet (PoE+), it must be connected to a switch or other equipment that has a PoE+ PSE (Power Sourcing Equipment) port</p> <p>Warning: Do not run wiring connected to a PoE+ PSE port outside of the building where the PSE resides. It is for intra-building use only</p>

ENVIRONMENTAL	
Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	85 BTU/hr

GENERAL	
Product Dimensions (HWD)	1 1/6" x 7 7/8" x 5" (26.6mm x 200mm x 127mm)
Product Weight	1.41 lbs. (Approx. 0.45kg)
Shipping Weight	2.78 lbs. (Approx. 1 kg)
Regulatory Compliance	FCC, CE, and UL

