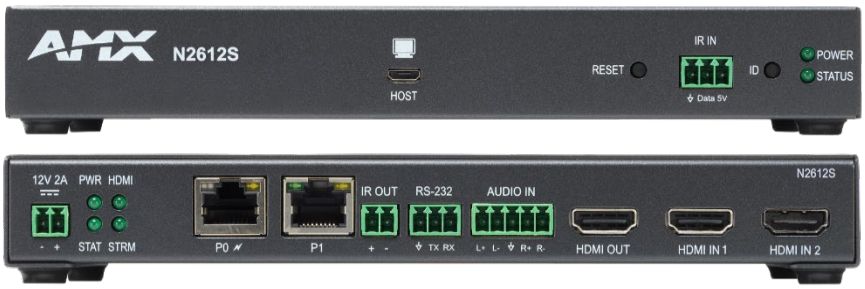
AMX NMX-ENC-N2612S

MWC 4K60 4:4:4 & H.264 1080p Multi-Codec, Dual-Stream Encoder
AMX-N26E001 (Stand Alone)
AMX-N26E001C (Card Version)



The AMX NMX-ENC-N2612S Dual Stream, Dual Codec Encoder

Overview

The AMX SVSI NMX-ENC-N2612S is a cost-effective, powerfully robust encoder. It features a high-quality, low latency 4K60 4:4:4 MWC codec and a simultaneous H264 1080P stream that is ideal for encoding both live video and detailed content in classrooms, meeting spaces, courtrooms, bars, and other applications.

Additional features include transport of full-bandwidth USB 2.0 signals, video preview images viewable from the built-in web interface or from a touch panel, and enhanced support for high-security networks.

Compatible decoders include the NMX-DEC-N2625-WP Decoder Wallplate and the NMX-DEC-N2622S Multi-Codec Decoder.

Features

- High-Quality, Low-Latency 4K60 MWC encoding.
- Dual Stream, Dual Codec
- Video Preview viewable from the built-in web interface or from a touch panel
- USB 2.0 Transport
- Switchable Dual HDMI Inputs
- High security network support and features, including multicast, VLAN tagging and QoS.
- PoE+ powered with low-power mode for energy savings.
- Open Direct-Control API

Specifications

VIDEO	
Digital Video Input	HDMI 2.0
Digital Video Output	Network video over Ethernet via RJ45 port or HDMI
Formats	HDMI 2.0, DVI-D (through adapter), Dual-Mode DisplayPort (DP++), HDCP 2.2 content protection support DVI-D and Dual-Mode DisplayPort (DP++) are supported through a passive adapter
Progressive Input Resolutions	Supports 4K60 4:4:4 and most common HD resolutions up to 1920x1200 HDMI and DVI (Progressive) • Pixel clock between TBD MHz – TBD MHz • Minimum resolution of 720x480p60 • Maximum horizontal resolution of 4096 or a vertical resolution of 2160 • Common acceptable resolutions include: 720x480p60 – 480p, 720x576@50, 800x600p60, 1024x768p60, 1280x720@60Hz - 720p60, 1600x1200@60Hz, 1920x1080@60Hz - 1080p60, 3840x2160(4:4:4)@60Hz UHD60 aka 4K60, 4096x2160(4:4:4)@60Hz - DCI 4K60
Interlaced Input Resolutions	Supports 1080i60 HDMI and DVI (Interlaced) • 1920x1080@50Hz - 1080i50 • 1920x1080@60Hz - 1080i60 Note: Interlaced resolutions will be de-interlaced if scaled on the decoder; otherwise, the interlaced signal will pass through to the display
Color Space	4:4:4, YUV
LocalPlay/HostPlay	TBD playlists
HostPlay	TBD image/list
Note	Jumbo Frames Required
Video Wall Construction	Supported within the N2622, N2625, or N2625-EK the N2600 Series is compatible with the SVSI N3510 Windowing Processor when using H.264 stream.
Network Video Recording	Only the H264 stream is compatible so long as the source is not HDCP.

H264 VIDEO	
Digital Video Output	720P or 1080P
Frame Rate	50 or 60 Hz
Profiles	Baseline (BP), main (MP), high (HiP)
Bitrate Range	500 Kbps to 50 Mpbs
Rate Control	CBR, VBR
Streaming Protocols	RTP, RTSP, RTMP, RTMP/S, MPEG2-TS, HTTP Live

AUDIO	
Input Signal Types	Embedded audio on HDMI or Analog Stereo (Balanced or Unbalanced)
Output Signal Types	Ethernet, Embedded audio on HDMI
HDMI Audio Formats	8ch PCM
Analog Audio Format	Stereo 2-channel
Analog-To-Digital Conversion	TBD kHz

KEYBOARD AND MOUSE	
Keyboard & Mouse	Connect the decoder to the keyboard and mouse, and an N2600 Series Encoder to the PC being controlled

USB 2.0	
USB	Connect the decoder to an end device such as a USB camera, audio, or USB 2.0 device, and an N2600 Series Encoder to the PC.

LATENCY	
Latency	16-ms Scaling adds one frame of latency (17ms at 60fps)
Switching	Up to 1.25 seconds

BANDWIDTH	
Bandwidth	Approximately 500-700 Mb/s

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
P0	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 input 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

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	Can be powered via a PoE+ switch or other equipment with a PoE source. Conforms to IEEE 802.3at Class 3 (802.3at Type 1) 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 Warning: Do not run wiring that is connected to a PoE PSE port outside of the building where the PSE resides. It is for intra-building use only

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 (LWH)	1 1⁄6” x 7 7⁄8” x 5” (26.6mm x 200mm x 127mm)
Product Weight	AMX-N26E001: 2.16 lbs. (Approx. 0.98kg) AMX-N26E001C: 0.75 lbs. (Approx. 0.34kg)
Shipping Weight	AMX-N26E001: 2.67 lbs. (Approx. 1.21kg) AMX-N26E001C: 1.30 lbs. (Approx. 0.59kg)
Regulatory Compliance	FCC, CE, and UL

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