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Minimal Proprietary Compression Video Over IP Encoder

NMX-ENC-N1122 (FGN1122-SA), Stand Alone

NMX-ENC-N1122-C (FGN1122-CD), Card



Overview

The NMX-ENC-N1122 provides users with two RJ45 network ports (one POE). All MPC N1000 series includes output scaling, serial, balanced audio, and HDMI video connection. The N1000 Series is the perfect solution for in-room or small video matrices under 32×32 in size.

The N1000 Series Encoders and Decoders are an affordable local AV over IP switching solution that packetizes video into a minimally compressed IP format to create anywhere from a small 2×1 seamless presentation switcher up to a large 32×32 matrix switcher using off-the-shelf layer-3 network switches.

The ability to send IP Media for distribution using common managed network switches in any size and configuration makes N1000 solutions extremely flexible and easy to deploy.

Common Applications

- The NMX-ENC-N1122 is the perfect solution for any low-latency application and video matrix smaller than 32×32. Common applications include classrooms, conference rooms, performing arts, and sports bars.

Features

- **Output Scaling** – Video scaling at output allows seamless switching from any source, at any resolution, to any display or projector, while preserving video fidelity.
- **1 Frame Latency** – Same as HDBaseT.

- **Minimal Proprietary Compression (MPC)** – Visually lossless MPC algorithm.
- **Power Over Ethernet (PoE)** – PoE eliminates the need for power supply.
- **Infrared (IR)** – Infrared emitter connection allows control of low-cost, IR-only display devices.
- **Onboard Control** – All N-Series encoders and decoders have on-board, built-in control capability via events that can trigger any number of TCP/UDP commands to other IP controllable devices.
- **Unmatched Flexibility** – Highly competitive pricing for matrices up to 32x32.
- **Separate Inputs** – Separate HDMI and VGA input connectors on the encoder.
- **Two RJ45 Ports** – Encoder features two RJ45 network ports (one PoE).
- **Stand Alone or Card** – Available as a stand alone device, or card for use with NMX-ACC-N9206.

Specifications

VIDEO	
Digital Video Input	HDMI, DVI-D (through adapter), RGB/VGA
Analog Video Input	HD-15 VGA, Component Component is supported through a passive adapter
Video Output	Network video over Ethernet via RJ45 port
Formats	HDMI, DVI-D (through adapter), Dual-Mode DisplayPort (DP++), HDCP content protection support, RGBHV, YPbPr DVI-D and Dual-Mode DisplayPort (DP++) are supported through a passive adapter
Progressive Input Resolutions	Supports most common HD up to 1920x1200. See website for all supported resolutions.
Interlaced Input Resolutions	Supports 1080i60. See website for all supported resolutions.
Analog Input Resolutions	Supports most common HD up to 1920x1200. See website for all supported resolutions.
Note	Input resolutions supported @60Hz refresh rates are also supported @59.94Hz.
Analog-to-Digital Conversion	8-bit 165 MHz per each of three color channels
Note	The N1122 Encoder does not accept Composite or S-Video (YC).

AUDIO	
Input Signal Types	Embedded audio on HDMI (DVI-D through adapter) or Analog Stereo (Balanced or Unbalanced)
Output Signal Types	Ethernet
HDMI Audio Formats	8ch PCM
Analog Audio Formats	Stereo 2-channel
Analog-To-Digital Conversion	16-bit 32 kHz, 44.1 kHz and 48 kHz

LATENCY	
Latency	10 ms at 60 fps
Note:	<ul style="list-style-type: none"> • This is the combined encode plus decode latency. Total latency from source to screen will also include any network latency. • Scaling adds one frame of latency (17ms at 60fps)

COMMUNICATIONS	
Ethernet	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP, Auto IP, and Static IP

HDMI	HDCP, EDID management
PORTS	
+12V 2A	One 12 Volt DC power input
P0	8-wire RJ45 female 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
P1	8-wire RJ45 female 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port. Provides network connection
IR	2-pin terminal Phoenix connector. Provides Infrared (IR) output only (33-60 kHz; typically 39 kHz). Emitter may be 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 IN	HDMI video input
VGA IN	DB15 analog 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).
POWER LED	On solid (green) when operating power is supplied (via PoE or local power supply). This activity is also shown by the PWR LED on the rear panel.
STATUS LED	On flashing (green) when there is software activity. This activity is also shown by the STAT LED on the rear panel
CONTROLS AND INDICATORS – REAR PANEL	
PWR LED	Same as POWER LED described above
HDMI LED	On (green) when there is a connection to a valid video source
STAT LED	Same as STATUS LED described above
STRM LED	On (green) when the unit is streaming video
POWER SUPPLY	

Power Supply, External, Not Included	2.0 Amp @ 12 Volts DC; 100-240 Volts AC power supply; not included in shipment. NMX-ACC-N9312 (FGN9312)
Power over Ethernet	Can be powered via a PoE switch or other equipment with a PoE source. Conforms to IEEE 802.3af Class 3 (802.3at Type 1)
Note	In order 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. PoE does not pass through the daisy chain (P1) port.

ENVIRONMENTAL	
Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	Up to ~44 BTU/Hr

GENERAL	
Dimensions (HWD)	1.05" x 7.888" x 5.5" (2.67 cm x 20.04 cm x 13.8 cm)
Weight	1.6 lbs (0.66 kg)
Mounting Options	Stand alone, surface mount, wall mount, or rack mount Surface and wall mounting requires (not included): <ul style="list-style-type: none"> •NMX-ACC-N9101 (FGN9101), Mounting Wings for SVSI N-Series Encoders and Decoders Rack mounting requires one of the following (not included): <ul style="list-style-type: none"> •NMX-ACC-N9102 (FGN9102), 1RU Rack Shelf for Two Side-by-Side for SVSI N-Series Encoders and Decoders •NMX-ACC-N9206 (FGN9206), 2RU Rack Mount Cage with Power for Six SVSI N-Series Card Units
Regulatory Compliance	FCC, CE, and NTRL
Recommended Accessories	<ul style="list-style-type: none"> •NMX-ACC-N9382 (FGN9382), 1RU Power Supply 16-Channel 12V for up to 16 SVSI N-Series Encoders and Decoders •NMX-ACC-N9101 (FGN9101), Mounting Wings for SVSI N-Series Encoders and Decoders •NMX-ACC-N9102 (FGN9102), 1RU Rack Shelf for Two Side-by-Side SVSI N-Series Encoders and Decoders •NMX-ACC-N9206 (FGN9206), 2RU Rack Mount Cage with Power for Six SVSI N-Series Card Units

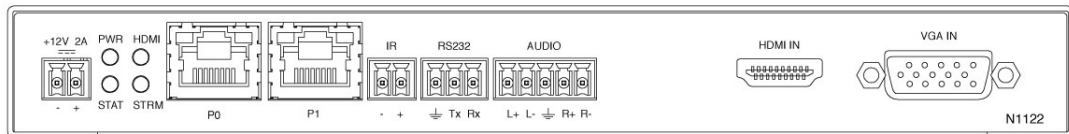
NMX-ENC-N1122 Front View



- 1) Device reset button
- 2) Device ID discovery button

- 3) Power/Status indicators

NMX-ENC-N1122 Rear View



- 1) 12VDC Input (not needed with POE)
- 2) Status Indicators
- 3) RJ-45 auto-sensing gigabit Ethernet switch port – POE (Power Over Ethernet)
- 4) RJ-45 auto-sensing gigabit Ethernet switch port

- 5) Infrared (IR) emitter connection
- 6) RS232 connection
- 7) Analog Audio Input connection
- 8) HDMI Video In
- 9) DB-15 (analog) Input

About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 3.3.16. ©2016 Harman. All rights reserved. Specifications subject to change.

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