DATA SHEET

Audio over IP Transceiver

NMX-ATC-N4321 (FGN4321-SA), Stand Alone
NMX-ATC-N4321-C (FGN4321-CD), Card

Overview

The NMX-ATC-N4321 Audio Transceiver is an audio-over-IP solution that both sends and receives two-channel balanced or unbalanced audio over IP. Simply connect a balanced audio input into the IN port and it's converted to IP packets that are switchable and routable just like data or voice. The balanced audio output receives an audio-over-IP stream and decodes to analog while preserving audio fidelity. Perfect for point-to-point or point-to-multi-point audio delivery, the NMX-ATC-N4321 provides audio matrix switching and distribution using the same control options as SVSI's Networked AV video switching and distribution solution.

With two auto-sensing gigabit Ethernet ports, units can be stacked to deliver low-latency multi-channel audio over a house network or a physically separate network. One Ethernet port is POE for use with a POE switch, eliminating the need for an external power supply. An audio matrix with any number of inputs and outputs can be constructed with the NMX-ATC-N4321. Since control is the same as for SVSI's video over IP matrix, video and audio matrices can be combined and routed using the same controller for the ultimate in digital media distribution.

Specifications

AUDIO	
Input	2-channel user selectable balanced or unbalanced audio.
Output	2-channel balanced audio (1x 5-pin phoenix connector) 2-channel unbalanced audio (headphone jack)
Analog-To-Digital Conversation	16-bit 32 kHz, 44.1 kHz and 48 kHz

Phantom Power	48V on each of the input audio pins (L+, L-, R+, R-), 7mA per pin, or 14mA per channel

LATENCY	
Audio	20ms (excluding network propagation)

COMMUNICATIONS	
Ethernet	Multi-cast, unicast, IGMP v3, IPv6, layer-2 and layer-3 switch compatible.

PORTS	
+12V 2A	One 12 Volt DC power input
P0 POE	8-wire RJ45 female. 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port. Provides both the network connection and the 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.
GPI	General purpose input.
RELAY	2-channel relay port.
AUDIO IN	5-pin terminal Phoenix connector which provides user-selectable balanced/ unbalanced input. Dedicated audio input.
AUDIO OUT	5-pin terminal Phoenix connector which provides user-selectable balanced audio output. Dedicated audio output.
HEADPHONE JACK	2-channel, unbalanced audio output

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.

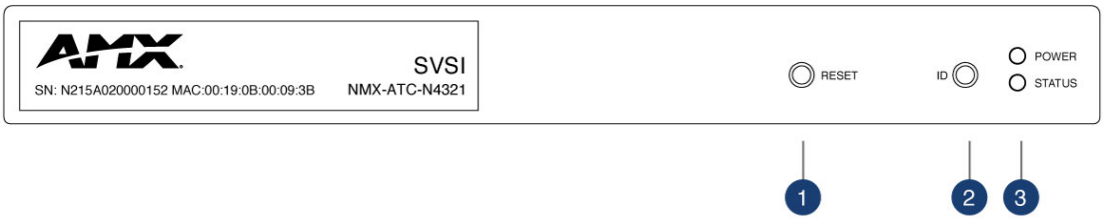
CONTROLS AND INDICATORS – REAR PANEL	
PWR LED	Same as **POWER** LED described above.
DVI LED	On (green) when a DVI input connection exists.
STAT LED	Same as **STATUS** LED described above.
STRM LED	On (green) when the unit is streaming video.

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 (PoE)	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.

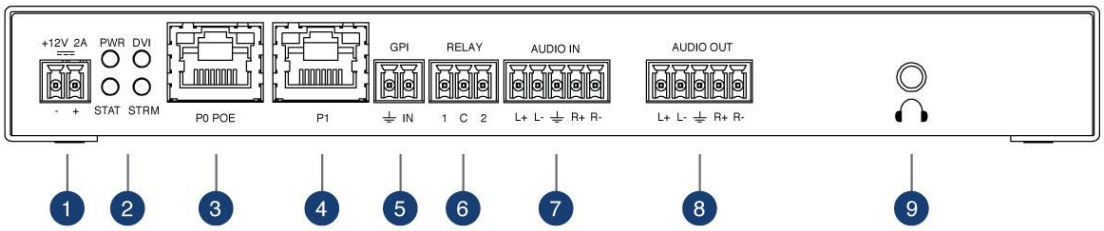
GENERAL	
Dimensions (HWD)	1.05” x 7.888” x 5” (2.67 cm x 20.04 cm x 12.7 cm)
Weight	1.5 lbs (0.68 kg)
Mounting Options	Stand alone, surface mount, wall mount, or rack mount Surface and wall mounting requires (not included): •NMX-ACC-N9101 (FGN9101), Mounting Wings for SVSI N-Series Encoders and Decoders Rack mounting requires one of the following (not included): •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	•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-ATC-N4321 Front View



1) Device reset button
2) Device ID discovery button
3) Power/Status indicators

NMX-ATC-N4321 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) General Purpose Input
6) 2-Channel Relay
7) Analog Audio Input connection
8) Analog Audio Output connection
9) Headphone Jack

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