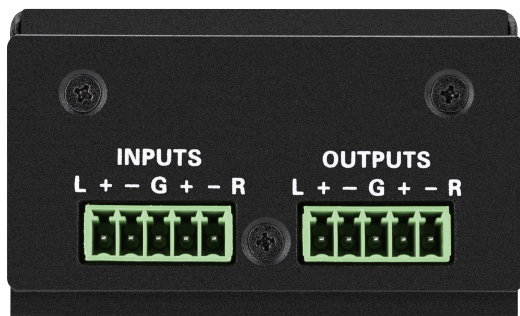


DM-NAX-AUD-IO

DM NAX® Audio-over-IP Converter with Balanced/Unbalanced Line-Level Audio Input and Output



Digital Signal Processing (DSP)

DSP capabilities such as bass and treble boost and cut, loudness, adjustable delay, tone profiles, and a full 10-band EQ per output are available on each output channel of the DM-NAX-AUD-IO.

Encoder and Decoder Functionality

The DM-NAX-AUD-IO can operate as a network AV encoder and decoder. The local input sources on the adapter can be sent as AoIP streams to DM NAX, Dante, or AES67 capable devices. Simultaneously, the DM-NAX-AUD-IO can receive AoIP streams from these same devices and decode them for local output.

Specifications

Audio

Input Signal Types	Balanced/unbalanced stereo analog line-level; DM NAX/AES67 audio-over-IP
Output Signal Types	Balanced/unbalanced stereo analog line-level; DM NAX/AES67 audio-over-IP
Source Compensation	±10.0 dB per input
Input Monitoring	Source Signal Detect
Frequency Response (at line-level output)	20 Hz to 20 kHz ±0.5 dB
THD+N (at line-level output)	0.005% @ 1 kHz, max output
S/N Ratio (at line-level output)	From line-level input: 110 dB, 20 Hz to 20 kHz, A-weighted; From digital input: 113 dB, 20 Hz to 20 kHz, A-weighted
Balance Control	Left/right adjustable
EQ Filter Types	EQ, High Pass, Low Pass, Treble Shelf, Bass Shelf, Notch
EQ Center Frequency	10 to 20,000 Hz per band
EQ Gain	+20/-40 dB per band
EQ Bandwidth	0.1 to 4.0 octaves per band

- Line-level, balanced/unbalanced analog audio input and output via detachable terminal block connectors
- Power over Ethernet (PoE) network powered
- Mountable in a standard US electrical box, under a table, or on a rack rail via included hardware
- Connects directly to a managed network to route to or from other DM NAX® and DM NVX® devices
- Interoperable with Dante® audio networking devices via AES67 compatibility
- Streamlined configuration through a web interface
- Seamless Crestron system integration with SIMPL Windows programming

The [DM-NAX-AUD-IO](#) is a DM NAX encoder and decoder with support for analog line-level audio input and output. The device is housed in a versatile form factor that can be mounted in a single-gang standard electrical box, under a table, or on a rack rail. An additional polycarbonate label is included with rotated text to make the front panel more legible in electrical box installations. The rear panel of the device features an Ethernet connection for PoE, Audio over IP (AoIP), and control.

DM NAX is built on the AES67 standards with additional ease of configuration via a web interface, SIMPL Windows, C#, and/or a RESTful API. It is compatible with DM NVX through the AES67 secondary audio stream and also with third-party AES67 solutions and Dante via the compatibility mode enabled through Dante Controller.

Audio-over-IP

DM NAX takes audio distribution to a whole new level by putting it on the network. The DM-NAX-AUD-IO sends and receives DM NAX and AES67 encoded audio over a standard IP network. A single DM NAX system can handle audio distribution between 32 DM NAX devices and supports up to 256 audio output zones. DM NAX devices can seamlessly pull and distribute the audio from DM NVX sources.

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Communications

Ethernet For control and PoE, AoIP, and/or console, 100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

Connectors

INPUTS (1) 5-pin 3.5 mm detachable terminal block; Balanced/unbalanced line-level audio inputs; Maximum Input Level: +21 dBu (8.7Vrms); Input Impedance: 10 k Ω

OUTPUTS (1) 5-pin 3.5 mm detachable terminal block; Balanced/unbalanced line-level audio outputs; Maximum Output Level: +21 dBu (8.7Vrms); Channel separation: 100 dB @ 1 kHz; Output Impedance: 400 Ω

G (1) 6-32 screw; Chassis ground lug

ETHERNET PoE (1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port;

Controls and Indicators

ETHERNET PoE Left amber LED indicates 1000 Mb link status; Left green LED indicates 100 Mb link status; Flashing right amber LED indicates Ethernet activity

SETUP (1) Push button: Used for factory reset procedures; (1) LED, illuminates red when the button is pressed, flashes red when reset has been initiated

Power

PoE IEEE 802.3af Class 0 (12.95 W) compliant; Compatible with IEEE 802.3af compliant Ethernet switch or third-party PoE compliant PSE

Power Consumption 5 W

Environmental

Temperature 32° to 104° F (0° to 40° C)

Humidity 10% to 95% RH (noncondensing)

Heat Dissipation 17 BTU/hr

Construction

Chassis Metal, black and silver finish

Mounting Mountable on the following via included hardware:
1-gang U.S. electrical box or plaster ring (not included), 3.5 in. (26 mm) electrical box depth recommended;
Rack rail;
Surface mount

Dimensions

Height 1.59 in. (41 mm)

Width 2.60 in. (66 mm)

Depth 2.11 in. (54 mm)

Weight

7 oz. (199 g)

Compliance

Regulatory Model: M202050001
IC, FCC Part 15 Class B digital device

Model

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Available Accessories

For a list of available accessories, visit the [DM-NAX-AUD-IO](#) product page.

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This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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