

DM-NAX-AP-100

DM NAX® Intelligent Audio Processor



- *Intelligent Audio processor for streamlined setup of conferencing solutions*
- *Mixes and processes audio from paired microphones, distributes program audio to paired speakers*
- *Automatically configures up to eight paired devices^{1,2}*
- *DM NAX® audio-over-IP and AES67 capable*
- *Provides bidirectional stereo USB audio support to a host computer via a USB-C® connection*
- *USB Audio Class 2 (UAC2) echo-cancelling speakerphone device*
- *Dedicated network port to isolate audio-over-IP traffic onto a separate LAN*
- *Power over Ethernet (PoE) or DC powered via an optional power pack ([PW-2407WU](#), sold separately)*

The [DM-NAX-AP-100](#) is an Intelligent Audio processor for unified communications and commercial audio applications.

Streamlined Web Interface

The DM-NAX-AP-100 web interface is optimized to most configuration tasks automatically. The DM-NAX-AP-100 configures the settings on paired speakers and microphones¹ to create a unified communications solution without having to manually set up advanced DSP parameters.

The dashboard view provides a comprehensive overview of the status of all paired devices, network information, and any error messages.

DM NAX® Audio-over-IP Capable

The DM-NAX-AP-100 has a dedicated network port for a secondary audio-over-IP LAN to connect to one or more DM NAX Intelligent Audio microphone and/or speaker pods ([DM-NAX-POD-MIC](#) and [DM-NAX-POD-MIC-SPK](#), sold separately). Connected microphones provide an automixed signal to the processor, which continuously analyzes the incoming mixes and automatically selects the best signal from up to eight connected microphone pods.

The Intelligent Audio processor is also interoperable with the [SAROS DM-NAX-IC4A-W](#) PoE in-ceiling speaker (sold separately) via DM NAX audio-over-IP compatibility.

Pairing the DM-NAX-AP-100 with DM NAX audio devices allows for encrypted unicast audio-over-IP streaming. Up to eight audio devices can be paired with a single DM-NAX-AP-100.²

Microsoft Teams® Certified Conferencing Solution

When used together, the DM-NAX-AP-100 Intelligent Audio processor and one or more microphone and speaker pods (DM-NAX-POD-MIC and DM-NAX-POD-MIC-SPK, sold separately) form a Microsoft Teams certified conferencing solution. This allows the Intelligent Audio processor to be selected as the audio interface for a BYOM device running Microsoft Teams.

Sennheiser® TeamConnect™ Ceiling Microphone Integration

The DM-NAX-AP-100 can pair with and control the Sennheiser TeamConnect Ceiling Microphone (TCCM) via a secure API¹. Using AES67 audio-over-IP streaming, connected microphones provide a mix to the Intelligent Audio processor and the processor supplies an AEC reference to the microphone for echo-cancellation. The processor continuously analyzes the incoming mixes and automatically selects the best mix from up to four connected ceiling microphones.

In combination with one or more SAROS DM-NAX-IC4A-W PoE in-ceiling speakers (sold separately), these devices also form a Microsoft Teams certified conferencing solution. Up to four ceiling microphones and up to four PoE speakers (each with up to three connected passive speakers, for up to 16 total speakers) can be paired with a single DM-NAX-AP-100.

Specifications

Communications

Ethernet	For control and PoE, AoIP, and/or console, 100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP
USB	Bidirectional USB Audio Class 2 (UAC2) device connection, up to 24-bit/48 kHz stereo audio transfer; Enumerates as Crestron Echo-Canceling Speakerphone

Audio

DSP	Acoustic echo cancellation, automatic gain control, and dynamic noise suppression
Input Signal Types	USB stereo; DM NAX/AES67 audio-over-IP
Output Signal Types	USB stereo; DM NAX/AES67 audio-over-IP

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Connectors

USB	(1) USB Type-C® connector, female; UAC2 audio support; Enumerates as Crestron Echo-Canceling Speakerphone
24VDC 0.75A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2407WU power pack (sold separately)
LAN 1 (PoE)	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port; Dedicated for control traffic and Power over Ethernet only; PoE PD (powered device) port; IEEE 802.3af Type 1 PoE Class 0 (12.95 W) compliant; Compatible with PoE compliant Ethernet switch or third-party PoE PSE; Dedicated for Audio-over-IP traffic only
LAN 2	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port
G	(1) 6-32 screw; Chassis ground lug

Controls and Indicators

PWR	(1) Green LED; Indicates that the device is connected to power and fully booted
LAN 1-2	(2) LEDs; Solid green indicates that the indicated network port has established a network link and is ready for pairing; Blinks teal in sequence with the other front panel LEDs to indicate that firmware is upgrading; Blinks blue in sequence with the other front panel LEDs to indicate that a connected speaker's firmware is upgrading
AoIP	(1) LED; Solid green indicates that audio-over-IP traffic is passing in or out of the device; Solid yellow indicates that one or more paired devices are offline; Solid red indicates that all paired devices are offline; Blinks teal in sequence with the other front panel LEDs to indicate that firmware is upgrading; Blinks blue in sequence with the other front panel LEDs to indicate that a connected speaker's firmware is upgrading

USB	(1) LED; Solid green indicates that a connection to a USB host is established; Blinks teal in sequence with the other front panel LEDs to indicate that firmware is upgrading; Blinks blue in sequence with the other front panel LEDs to indicate that a connected speaker's firmware is upgrading
PAIR	(1) LED; Blinks blue to indicate that pairing is in process; Blinks teal in sequence with the other front panel LEDs to indicate that firmware is upgrading; Blinks blue in sequence with the other front panel LEDs to indicate that a connected speaker's firmware is upgrading
SETUP	(1) Push button: Pressing and holding the SETUP button for 15 seconds with power supplied clears network settings and restores the default DHCP mode; To perform a factory restore, press and hold the SETUP button with power disconnected, then connect the power supply and continue to hold the SETUP button for 30 seconds; (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 Supply (optional)	Input: 100-240VAC, 50/60 Hz; Output: 0.75A @ 24VDC; Model: PW-2407WU (sold separately)

Environmental

Temperature	41° to 104°F (5° to 40°C)
Humidity	10% to 95% RH (noncondensing)

Construction

Enclosure	Lightly textured black finish, plastic housing
Mounting	Freestanding, stackable, surface mount and wall/ceiling mount option with bracket (black plastic)

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Dimensions

Height	1.35 in. (34 mm); 1.77 in. (45 mm) with mounting bracket
Width	5.04 in. (128 mm); 5.36 in. (137 mm) with mounting bracket
Depth	5.04 in. (128 mm)

Weight

12.3 oz (348 g)

Compliance

Regulatory Model: M202439003

FCC Part 15 Class B, IC Class B, CE, Intertek® Listed for US and Canada

Model

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Available Accessories

For a list of available accessories, visit the [DM-NAX-AP-100](#) product page.

Note:

1. Third-party devices may require initial setup before the DM-NAX-AP-100 can configure the necessary settings.
2. SAROS IC4P-W passive speakers are not included in the paired device count.

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 contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

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