

SAROS DM-NAX-IC4A-W

Saros® 3 in. Active Full-Range In-Ceiling PoE+ Speaker with DM NAX® Audio-over-IP Support, White, Textured



- *Audio-over-IP (AoIP) in-ceiling speaker*
- *Connects directly to a managed network to route to or from DM NAX® audio-over-IP, DM NVX® A/V-over-IP, or AES67 devices*
- *Interoperable with Dante® audio networking devices via AES67 compatibility*
- *Powers up to three satellite SAROS IC4P-W speakers (sold separately)*
- *Balanced Mode Radiator (BMR) transducer offers enhanced clarity and wider dispersion than a typical conical driver*
- *Clean, contemporary grille design*
- *Two-step toggle clamps for quick and easy installation*
- *Includes tile bridge for installation in a drop-tile ceiling*
- *80 Hz to 24 kHz frequency response*
- *170° coverage for speech content, 140° coverage for music*

Saros® speakers by Crestron deliver professional grade performance and flexible installation in a range of popular sizes for demanding commercial applications.

The [SAROS DM-NAX-IC4A-W](#) in-ceiling, PoE+, Audio-over-IP (AoIP) speaker with a Balanced Mode Radiator (BMR) transducer offers broad coverage angles and simple installation. A single 2.83 in. (72 mm) BMR transducer drives the entire 80 Hz to 24 kHz frequency range, with coverage angles exceeding the capabilities of a traditional conical, piston woofer and concentric tweeter. One SAROS DM-NAX-IC4A-W also powers up to three [SAROS IC4P-W](#) speakers (sold separately) to act as the hub of a four-speaker system.

Audio-over-IP

The SAROS DM-NAX-IC4A-W receives up to four channels of DM NAX audio-over-IP or AES67 encoded audio over a standard IP network. DM NAX devices can also receive the audio stream from DM NVX A/V-over-IP devices, and are interoperable with Dante audio devices via the AES67 compatibility mode enabled through Dante Controller® software. The speaker features a built-in 25.5 W PoE+ audio amplifier that drives the built-in BMR transducer and provides power to three additional SAROS IC4P-W passive speakers.

Digital Signal Processing

Digital Signal Processing (DSP) capabilities such as bass and treble boost and cut, speaker protection and limiting, a full 10-band EQ per output, and output delay can be configured through the web configuration interface. In addition to the audio channel that feeds the built-in BMR transducer, each RJ-45 output has a discrete audio channel for a total of four channels of available audio processing.

Simple and Clean Installation

The speaker is designed for quick and easy installation and years of reliable performance. Its unobtrusive and contemporary grille achieves an appearance well-suited for use in restaurants, retail spaces, houses of worship, universities, and office buildings. Installing the grille requires no hardware or tools, utilizing powerful magnets to hold it in place.

Mounting the speaker is facilitated using swiveling mounting dogs integrated into the enclosure. The mounting dogs feature two positions to accommodate standard and extra thick surfaces up to 2.4 in. (61 mm). A tile bridge is included to provide proper support when installed in a typical drop-tile ceiling. The tile bridge is adjustable to enable off-center speaker positioning, and can be folded to fit through the speaker cutout. A rigging point is also provided on the speaker enclosure for securing to the building structure using an optional safety tether kit ([SPKA-ST-15](#), sold separately).

Plenum Rated

The speaker is housed in an integral metal back can, which meets the requirements of UL® 2043 for installation in a plenum space. The wiring connections are accessible behind rear cover panels. Three connections for additional passive speakers are available to expand the total audio coverage area.

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Specifications

Features & Performance

Transducer	2.83 in. (72 mm) Balanced Mode Radiator (BMR)
Frequency Response	80 Hz to 24 kHz (± 3 dB)
Sensitivity	86 dB @ -18 dBFS/1 m
Maximum SPL	
Coverage	170° conical (speech, up to 4 kHz); 140° conical (music, up to 8 kHz)
BMR Power Handling	25 W
BMR Power Output	Up to 21 W
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

Connectors

SPEAKER-LEVEL OUTPUTS 2-4	(3) 8-pin RJ-45 connector, female; Speaker-level audio output; For use with SAROS IC4P-W only; For plenum rated patch cable, use CBL-ZUMLINK-P-25 (sold separately) or third-party CAT5 cable 32 ft. (10 m) or shorter ¹
Network/PoE+	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port; PoE+ PD (powered device) port; IEEE 802.3at Type 2 PoE+ Class 4 (25.5 W) compliant; Receives up to two stereo DM NAX AoIP streams or two stereo AES67 streams

Controls and Indicators

Ethernet	(2) Bi-color green/amber LEDs; Left LED indicates Ethernet link status; Right LED indicates Ethernet activity
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Power

(1) Bi-color white/red LED behavior determined via web UI configuration; White indicates that the device is powered on with audio passing or that signal is present; Red indicates that the device is in standby mode, that a fault is present, or that SETUP is pressed; Off indicates no power from the power supply or that the LED has been disabled from the web UI

SETUP

(1) Recessed push button; Pressing and holding the **SETUP** button for 15 seconds with power supplied clears network settings and restores the default DHCP mode; Pressing and holding the **SETUP** button with power disconnected, then connecting the power supply and continuing to hold **SETUP** for 30 seconds will perform a factory restore

Power

PoE+	IEEE 802.3at Type 2 Class 4 (25.5 W) compliant
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Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Enclosure	Painted steel, plenum-rated; 0.75 in. (19 mm) conduit knockout on top and sides; (1) cable clamp included
Baffle	ABS UL® 94V-O plastic
Grille	Steel with white textured finish; Magnetically held; Safety tether included
Mounting	Flush ceiling mount using 4 integral 2-step toggle clamps; 2.36 in. (60 mm) maximum clamping thickness; Tile bridge included

Dimensions

Baffle Diameter	7.49 in. (191 mm) not including mounting clamps
Back Can Diameter	6.33 in. (161 mm) not including mounting clamps

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Depth 4.28 in. (109 mm) mounting depth;
4.50 in. (115 mm) including grille

Weight

2.6 lb (1.2 kg)

Compliance

Regulatory Model: M202010001

FCC Part 15 Class B, IC Class B, CE, UL® 2043

To search for product certificates, refer to
support.crestron.com/app/certificates.

Model

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Available Accessories

For a list of available accessories, visit the
[SAROS DM-NAX-IC4A-W](#) product page.

Note:

1. Only straight-through wiring should be used for the Category cable connection between the SAROS DM-NAX-IC4A-W and any connected SAROS IC4P-W speakers. Do not use a crossover cable; crossover wiring may cause damage to the components of the SAROS IC4P-W speaker. Perform a pin-out and continuity test on the cable before installation to ensure the cable is wired straight-through.

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.

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

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

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