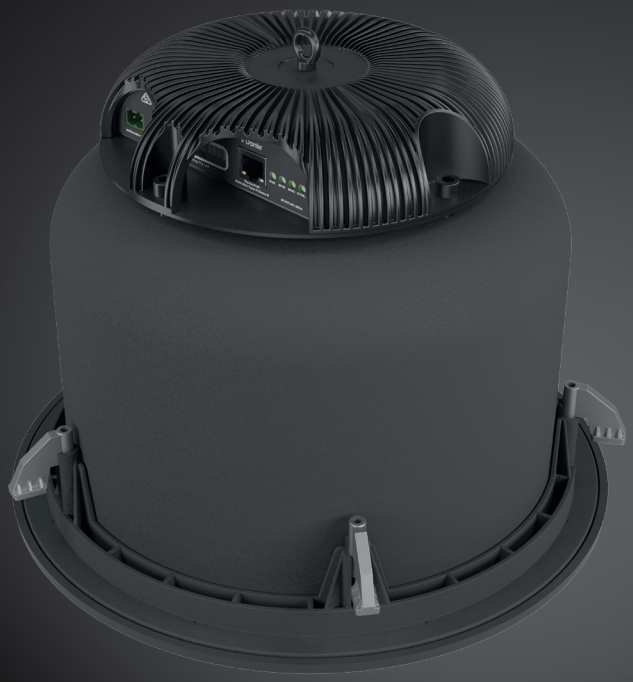
MX6CPOE

2-Way 6″ High-Fidelity Ceiling Speaker



The MX6CPOE is a PoE-enabled version of the MX6C in-ceiling loudspeaker, designed for network-centric audio systems using Dante® and PoE distribution. By integrating a high-performance Class-D amplifier directly onto the loudspeaker, it allows audio, power, and control to be delivered via a single Ethernet connection.

This system is optimized for venues requiring flexible zoning and rapid reconfiguration. Using Dante Controller or an external DSP, users can manage one-to-one loudspeaker zoning, allowing layouts to adapt without physical re-cabling.

FLEXIBLE OUTPUT CONFIGURATION

The MX6CPOE can power up to **three additional downstream (slave) speakers** across two discrete Dante audio streams:

- **Output 1 (Stream A):** Drives the master MX6CPOE and can accommodate one additional MX6C loudspeaker. Both speakers share the same Dante audio feed.
- **Output 2 (Stream B):** Powered by an independent Dante audio feed, this output can drive up to two additional MX6C loudspeakers. Both downstream speakers on this output receive the same signal.

KEY FEATURES

- **Integrated Power:** PoE-enabled with an attached network power amplifier.
- **Network Ready:** RJ45 input for Dante®/AES67 digital audio; Audinate Dante Domain Manager (DDM) ready.
- **High Power Support:** Supports IEEE 802.3bt (Type 4, Class 8) PoE for up to 90W of power.
- **Intelligent Management:** Quest Intelligent Power Management provides automatic PoE detection and dynamic power limiting.
- **Efficient Zoning:** Single Ethernet connection manages audio, power, and control for up to four total speakers across two zones.

KEY SPECIFICATIONS

Transducers	1″ HF & 6″ LF
Dispersion	130°
Network	RJ45 Input for Dante®/AES67
Power	Supports IEEE 802.3bt (Type 4, Class 8) PoE for up to 90W of Power
Grilles	Black and White

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SPECIFICATIONS

COLOURS	WHITE (RAL9003)	BLACK (RAL9004)
MODELS	**MX6CPOEW**	**MX6CPOEB**
FREQUENCY RESPONSE (-6dB)	70Hz to 20kHz	
MAXIMUM SPL @ 1m	109dB	
TRANSDUCERS	HF: 25mm (1″) Dome Tweeter / LF: 152mm (6″) Woofer	
DISPERSION (H° x V° -6dB)	130° Conical	
DIRECTIVITY INDEX	3dB	
CONNECTIONS	2x Euroblock/Phoenix Connector - 5.08mm Pitch (additional Speaker Outputs)	
DANTE STATUS LEDS	SYS, SNC, CTRL, ERR	
POE STATUS LEDS	Type 2, Type 3, Type 4, ON	
DIMENSIONS (W x D)	288 x 220mm (11.3″ x 8.7″)	
CUT-OUT DIAMETER	254mm (10″)	
WEIGHT	3.6kg (8lb)	
RIGGING POINTS	Safety cable attachment point	
CABINET MATERIAL & FINISH	Fire-resistant aluminium backcan with black powder-coated finish	
GRILLE MATERIAL & FINISH	Removable rimless magnetic grille constructed from powder-coated steel	
SHIPPING DIMENSIONS (H x W x D)	275 x 365 x 365mm (10.8″ x 14.4″ x 14.4″)	
SHIPPING WEIGHT	4.6kg (10.1lb)	
ACCESSORIES (INCLUDED)	Grille, Cut out Tool, Spare Locking Tab (LTMXC)	
ACCESSORIES (AVAILABLE SEPARATELY)	Ceiling Tile Rail (QRAILKIT6), Ceiling Ring (QRING6) & Locking Tab (LTMXC)	

INTELLIGENT POWER SENSING	Type 1 (IEEE802.3af) (max. output power limited to 15W)
	Type 2 (IEEE802.3at) (max. output power limited to 30W)
	Type 3 (IEEE802.3bt) (max. output power limited to 60W)
	Type 4 (IEEE802.3bt) (max. output power limited to 90W)

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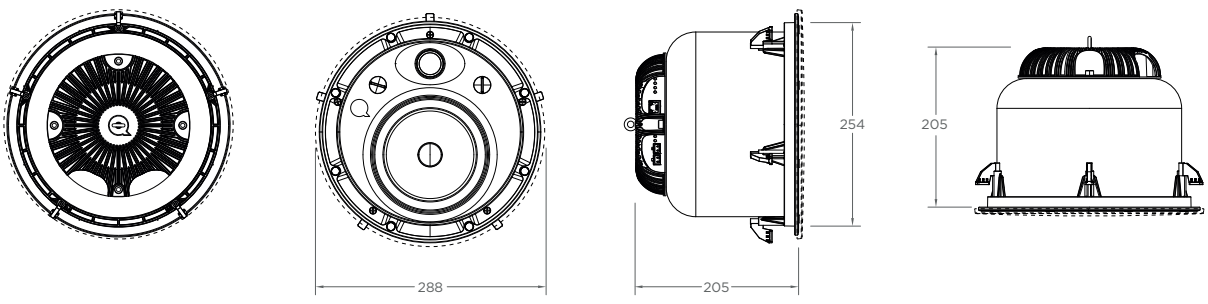
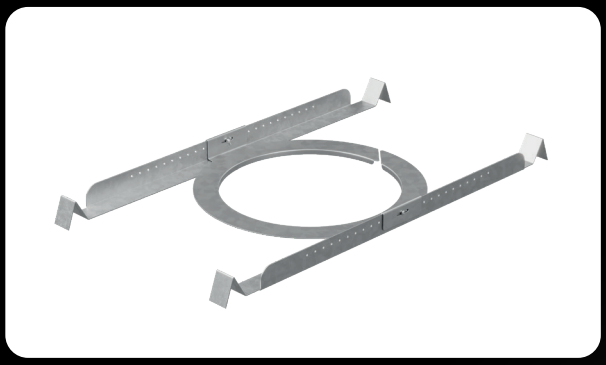
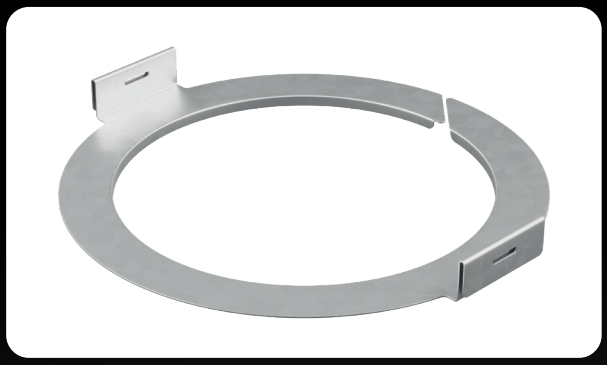


ACCESSORIES



CEILING TILE RAIL
QRAILKIT6



CEILING RING
QRING6

LOCKING TAB
LTMXC

MX6CPOE

The loudspeaker system shall be a 2-way, full-range in-ceiling loudspeaker, housed within a fire-resistant aluminium backcan with black powder-coated finish. The system will incorporate a 152mm (6″) Woofer coupled with a 25mm (1″) Dome Tweeter.

The loudspeaker will have a nominal impedance of 16 ohms and a power handling capacity of 75 W RMS, with a peak power rating of 150 W. Its frequency response (-6 dB) will extend from 70 Hz to 20 kHz. The sensitivity will be 91 dB SPL (1 W/1 m), with a maximum peak output of 113 dB SPL. The dispersion will be 130° Conical.

The loudspeaker will support both 100 V and 70 V line operation with selectable power settings as follows:

100 V operation: 10 W, 20 W, 30 W, 40 W

70 V operation: 5 W, 10 W, 15 W, 20 W

The connection panel will incorporate Euroblock/Phoenix connectors with a 5.08 mm pitch to facilitate in/thru wiring. The rear of the aluminium back can will include a safety cable attachment point for integration with fall arrest systems.

The grille will be a removable rimless magnetic grille constructed from powder-coated steel and will be available in White (RAL9003) or Black (RAL9004).

The loudspeaker system will have an installation cut-out diameter of 254 mm, with overall dimensions of 288 mm (Diameter) x 220 mm (Depth). The net weight will be 3.6 kg.

The loudspeaker will include the Grille, Cut out Tool, Cable Restraint & Spare Locking Tab (LTMXC). Ceiling Tile Rail (QRAIL), Ceiling Ring (QRING6), and Locking Tab (LTMXC) will be available as optional accessories.

The loudspeaker will be the MX6POEW (White model) or MX6CPOEB (Black model) by Quest Engineering.

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