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AMK Commercial Series

DT64-B

Dante™ Enabled Network Audio

6" Coaxial Loudspeaker

2 x 2 lay in tile grill system

(Preliminary)



Features:

- ♦ Network enabled Loudspeaker by Dante™
- ♦ PoE+ powered without a need for local power.
- ♦ RJ45 connection for audio from PoE+ Ethernet.
- ♦ 6" polypropylene cone with inverted rubber surround.
- ♦ 1" Polyamide dome tweeter
- ♦ Weather and water resistant.
- ♦ Two Channel Audio
- ♦ Plenum Rated

The AMK DT64-B A loudspeaker is powered by a POE+ network amplifier with Dante™ input. It is a 2x2 lay in grille speaker system for easy ceiling tile installation. No external power supply is required. The speaker system has a Class D amplifier which provides efficient use of power. The assembly comes with AMK's CX 602, highly efficient coaxial loudspeaker. This system will solve the issue of having to provide a separate amplifier or I/O interface for speaker installations.

One PoE amplified speaker can power a total of (4) speakers, including (3) additional passive speakers, with (2) speakers per audio zone.

The CX602 loudspeaker driver has excellent dispersion, wide bandwidth and a smooth frequency response which makes this the top choice for today's overhead commercial applications.

This assembly can be used in wide range of projects for paging and background music applications. The DT64-B is ideal for hotels, education, hospitals, retail stores, performing art centers, restaurants, airports, houses of worship, and board rooms. The end users will appreciate both the sound and visual quality of these speakers.

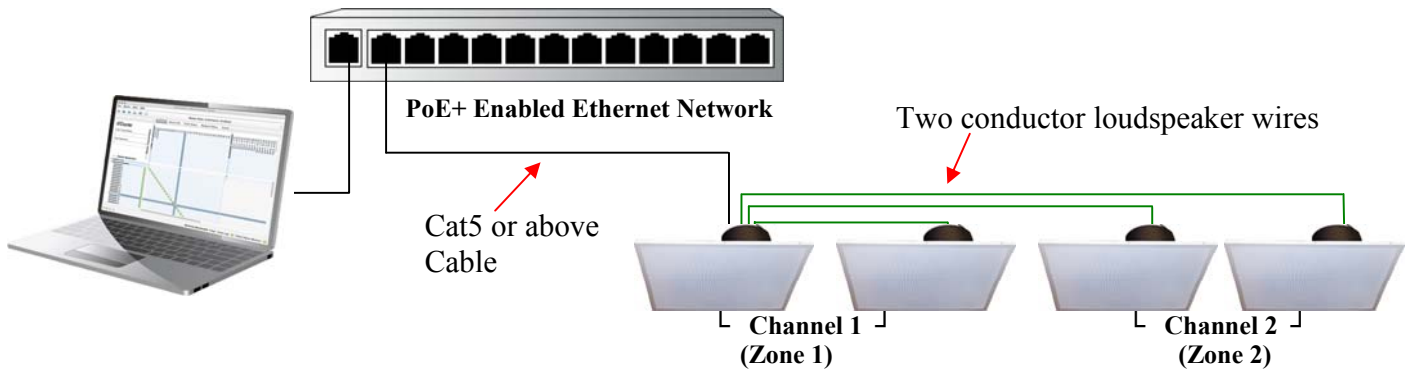
For details on Dante Networking, please visit:

<https://www.audinate.com/resources/networks-switches>

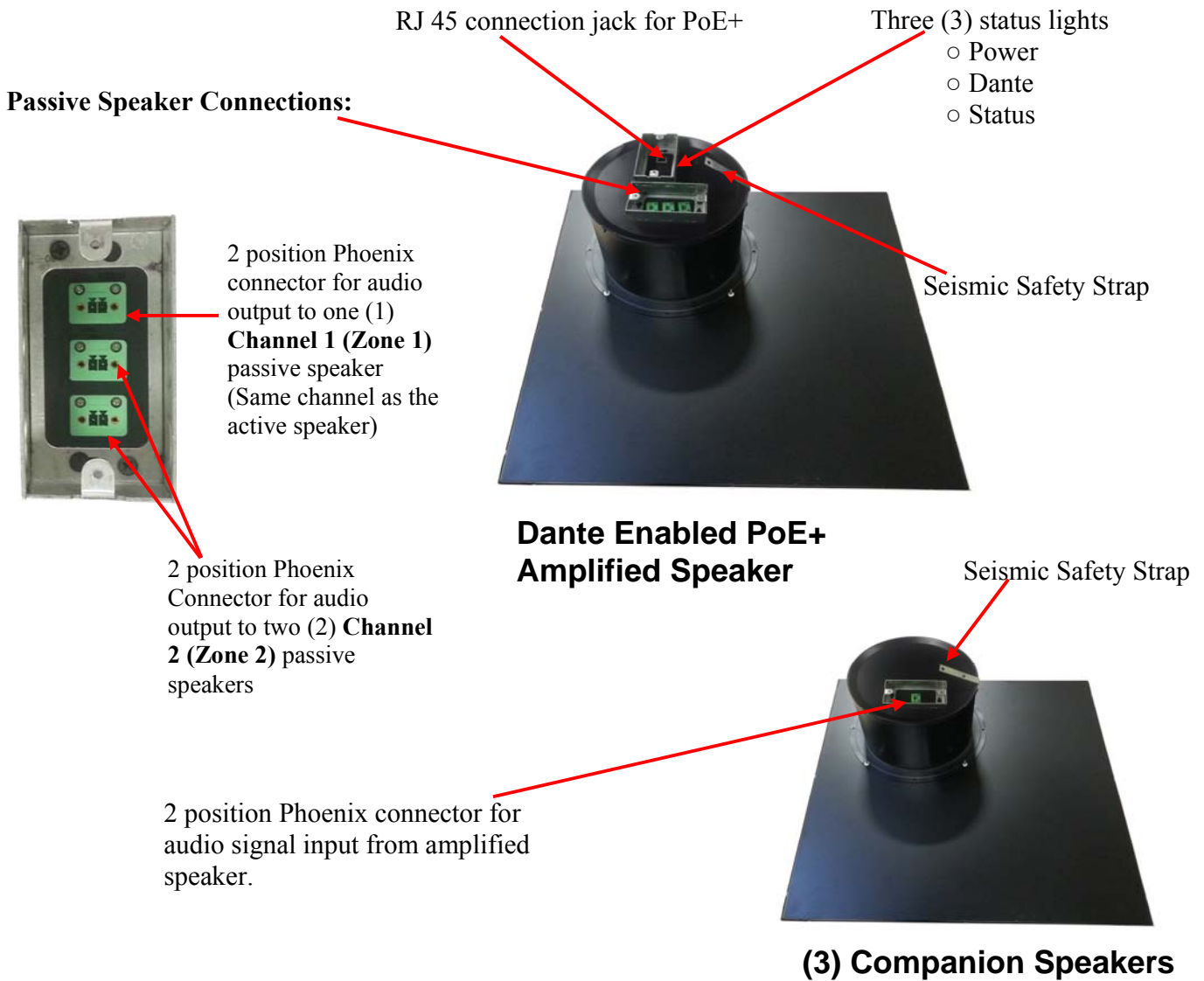
System Specification		AMK Dante Ceiling Speaker Advantage
Frequency Response	100 Hz - 20 kHz (+/- 3dB)	* No need to have separate dante enabled amp or I/O interface * A Single RJ45 connection to main active speaker with two conductor wire connection to each of the passive speakers. * Highly efficient speaker driver due to barium ferrite magnet. * Cost effective simple one system solution. * 2' x 2' ceiling tile lay in system for fast and easy installation and visually attractive for tile ceiling environment
Maximum SPL at 1M	102 dB	
Voice-coil diameter	1."	
Magnet	Barium Ferrite (for high efficiency of the speaker driver)	
Nominal Coverage Angle (500Hz – 4kHz Average)	140° Conical Average	
Audio Input	Dante Audio via Ethernet	
Output Power	10W / Channel (5W per speaker)	
Signal to Noise Ratio	>99dB	
Power consumption	2 Watts Standby, 25 Watts Maximum	
Input connector on active speaker	RJ-45	
Maximum wire length to companion speakers	100ft at 18AWG	
PoE+	IEEE 802.3at-2009	
Controls	Dante™ controller software	
Metal Enclosure Rating	Plenum Rated	

Physical Speaker Data		Frequency Response
Tweeter	13mm polyamide hard dome	
Woofer Cone	Polypropylene	
Surround Material	Inverted rubber Surround	
Crossover Frequency	5.0 kHz	
Enclosure Depth with Handybox	8.75"	
Grille dimension	24.0" x 24.0"	
Net weight of the speaker	16.0 lbs	
Shipping Weight (1 box of 2 speakers)	42.0 lbs	

CHANNEL ZONING ILLUSTRATION



SPEAKER CONFIGURATION *



Architect's & Engineer's Specifications

The powered loudspeaker system shall be **AMK DT64-B**. The speaker shall feature Audinate / Dante™ network audio signal that broadcasts 2 channels of audio. The speaker system shall consist of a set of 4 speakers with 2 speakers for each channel of audio broadcast.

The Network switch must have PoE+ to provide the power that is needed for the system.

The active unit of the system shall have one RJ-45 jack for network audio connection. Then there shall be (3)three of the two position phoenix type (euro) connections. One of the connections goes to the passive speaker that is operating under the same channel active speaker. Two other connections shall be for the 2nd channel.

The speaker unit in the system shall be of the coaxial type with an 6.5" woofer of polypropylene, an inverted rubber surround, and a 1" polyamide soft dome tweeter mounted on a post. The transducer in the loudspeaker system shall be AMK CX 602 coaxial loudspeaker. The woofer shall have a 13 oz. (369g) Barium Ferrite magnet. The two transducer sections shall be coupled through a built-in capacitor bypass crossover.

The crossover frequency shall be at 5.0 kHz. The low frequency transducer shall have 1" (25.4mm) voice coil and the high frequency transducer shall have 0.51" (13mm) voice coil. The system shall have a frequency response of 65 Hz- 20 kHz (+/- 10dB).

The system shall be on 2' x 2' metal perforated grille and 7" deep powered speaker enclosure attached on the back of the grille. The depth of whole speaker assembly 8.75" including the junction box attached.

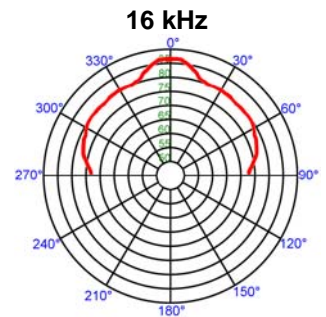
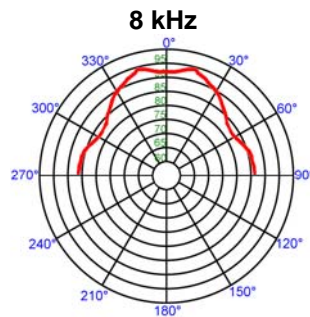
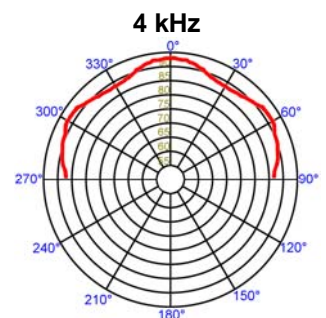
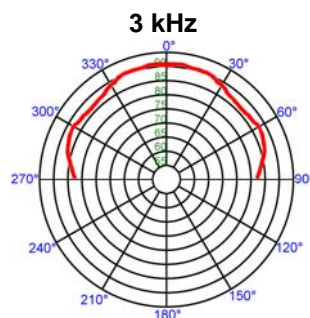
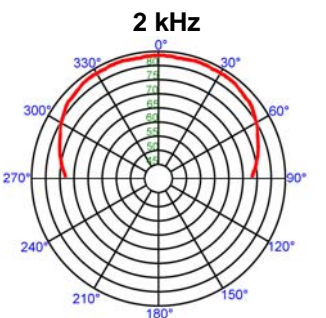
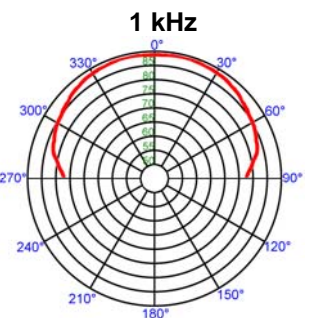
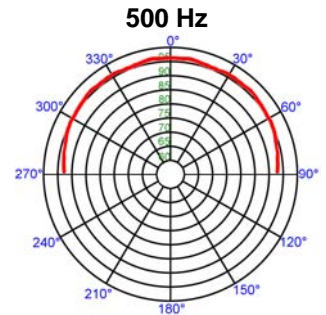
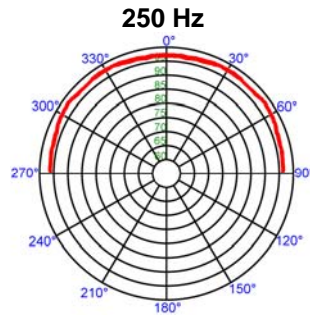
The total weight of the each of the speaker system shall not exceed 16.0 lbs.

The loudspeaker system shall be AMK Innovations model **DT64-B**.

Conforms to EIA Standards: RS-276-A, RS-278-B, RS-426-A.

Polar Responses

(Measurement done in house)



Freq	Deg	Q	DIdB
250 Hz	100°	3.8	5.8
500 Hz	96°	4.8	6.8
1 kHz	79°	6.8	8.3
2 kHz	72°	6.7	8.2
3 kHz	66°	9.2	9.6
4 kHz	86°	8.4	9.2
8 kHz	40°	7.1	8.5
16 kHz	16°	15.3	11.8