

Audio Expander



The Audio Expander is a small peripheral that enhances the BMA 360DX by offering local connectivity to all types of audio devices in the room—including microphones, line inputs and outputs, and USB audio.

- › There are 4 professional quality flexible analog channels that can be independently configured as either input or output.
- › As an input, the channel has a generously large gain range allowing it to connect to all types of professional and consumer level sources. For microphones that require it, clean +48 volt phantom power can be enabled.
- › As an output, a channel can be configured for either line level or mic level.
- › The USB-C connector provides driverless 2 channel USB Audio for Windows, Mac, and Linux computer systems, allowing easy BYOD connectivity.
- › ClearOne P-Link provides audio, control, and power connectivity from the BMA 360DX using a single CAT 6 cable.

APPLICATIONS

- Audio Conferencing
- Video Conferencing

WORKSPACES

- Conference rooms
- Boardrooms
- Courtrooms
- Classrooms
- Telemedicine Theaters

Audio Expander

Part Number • 910-3200-306

Analog I/O

4 x Mic/Line Inputs or

4 x Mic/Line Outputs, selectable • 3.81 mm blue, male header

Frequency Response • 20 Hz – 22 kHz @ 0 dBu, +/- 0.5 dB

Equivalent Input Noise (EIN) • 20 kHz BW, max gain, $R_s = 150 \Omega$, -126 dBu

THD + Noise • 20 Hz – 22 kHz @ 0 dBu, line level, < 0.01 %
• 20 Hz – 22 kHz @ -56 dBu, mic level, < 0.2 %

Dynamic Range • 20 Hz – 22 kHz @ 0dBu, > 105 dB

Crosstalk (Mic/Line) • Channel to Channel, stimulus at 20 dBu to receptor at -56 dBu, 1 kHz,
< 0.05 % (or -66 dB) of stimulus signal at 1 kHz, 20 dBu (or 7.746 Vrms)

Input Impedance • Balanced (line to ground), 2.2 k Ω , 1 %
(Mic/Line balanced)

Nominal Input Level • Adjustable: -56 dB to 0 dB, 7 dB step coarse gain

Maximum Input Level • +20 dBu

Phantom Power • Impedance: 6.81 k Ω , 48 V

Output Impedance • Balanced, 95 Ω , 1 %
(Mic/Line balanced)

Nominal Output Level • -40 dBu or 0 dBu

Maximum Output Level • +20 dBu (when set for Line level)
• -20 dBu (when set for Mic level)

USB Audio

Type:

USB-C connector, Digital Audio • 2 Channels Stereo
• 48 kHz, 24-Bit

Peripheral PoE

PoE In • RJ-45
• IEEE802.3 bt compliant devices or equivalent,
• PoE++ - Mode A, Mode B, and 4-pair Mode

Peripheral Bus

P-Link in and Out • Ports Type: RJ-45
• P-Link Power: 56 V 36 W IEEE 802.3 at compliant devices or equivalent, Mode B
• Cable: Solid core 23 AWG, factory terminated Cat 6
• Distance: Normal distance mode: Up to 200 ft (60 m)

Audio Expander

- Power LED • Blue
- Status LED • Blue
- Red

Power Consumption

- Power and Thermal • 100-240 VAC, 50/60 Hz. 120 VAC, 60 Hz @ 0.167 A
- Thermal: 34.8 BTU/hr
- 9.6 W typical
- Operating Temperature: 14 °F/-10 °C to 104 °F/40 °C

Dimension and Weight

- Dimensions • 6.77 x 6.69 x 1.73" (172 x 170 x 44 mm)
- Product Weight • 3.1 lbs (1.4 Kg)
- Shipping Weight • 4.2 lbs (1.9 Kg)
- Operating Temperature • 14 °F/-10 °C to 104 °F/40 °C
- Mounting • Brackets included for mounting under a table



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