The BMA CT is a patented ceiling tile beamforming microphone array that blends in perfectly with today’s drop ceilings. Built-in acoustic echo cancellation, noise cancellation, and beam selection eliminate the need for per-beam processing in a DSP mixer - requiring fewer DSP mixer resources.

> Integrated features can significantly reduce system design complexity, simplify installation, consume less rack space, and lower cost.

> Daisy-chain up to three ceiling tiles via P-Link for larger conference setups – for simpler wiring and longer distances compared to networked “home run” connections.

> Each ceiling tile microphone array supports long distance P-Link mode with 200 m / 650 ft between tiles, for a total cable reach of 600 m / 1950 ft

> Single workflow for configuration using Pro Console® software. No need to program separate components: Ethernet switch, BMA CT, Dante® controller, and DSP mixer.

> ClearOne's BMA technology is protected by at least a dozen patents and pending patent applications.

> Supports three different ceiling grid types: 24-inch, 600 mm, and 625 mm; as well as hard-ceiling mounts.

> It's all about the ClearOne architecture!

**APPLICATIONS**

- Audio conferencing
- Video conferencing

**WORKSPACES**

- Boardrooms
- Conference rooms
- Training centers
- Lecture halls
- Courtrooms

**MORE POWER INSIDE**

Built-in 2 x 10 Watt into 8-ohm power amplifier conveniently drives loudspeakers.

**FREE TO MOVE AROUND THE ROOM**

Adaptive steering (think of it as smart switching) - no need to adjust individual beams - for impeccable room coverage.

It's All About the Architecture!™
BMA CT

Connections

BMA CT I/O CONNECTIONS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Symbols" /></td>
<td>Speakers Out</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbols" /></td>
<td>PoE In</td>
</tr>
<tr>
<td><img src="image3.png" alt="Symbols" /></td>
<td>Power Select</td>
</tr>
<tr>
<td><img src="image4.png" alt="Symbols" /></td>
<td>PoE In</td>
</tr>
<tr>
<td><img src="image5.png" alt="Symbols" /></td>
<td>P-Link In</td>
</tr>
<tr>
<td><img src="image6.png" alt="Symbols" /></td>
<td>P-Link Out</td>
</tr>
</tbody>
</table>

Orientation

ORIENT LEDS TOWARDS EITHER END OF THE TABLE

Connection Diagrams

When using loudspeakers each BMA needs a PoE supply.

Standard Operating Mode

P-Link carries up to 16x16 audio channels
BMA CT

Diagrams

SIDE VIEWS

BACK VIEW
## BMA CT

### MICROPHONES
- **24 MICROPHONES**
  - Number of Beams: Two patterns, either 5 or 6 beams
  - Polar Pattern: Custom
  - Frequency Response: 150Hz – 16kHz, +/- 3dB
  - Dynamic Range: 150Hz – 16kHz, > 70dB

### AMPIFIER OUTPUT
- Uses P-Link channels and C-Link channels based on configuration
- **Type:** 5.08mm Black Header, Male, Phoenix type Euroblock
- **Audio:** 2 channels
- **Output Power:** 2x10W Max, 8Ω load*
- **Frequency Response:** 20Hz – 22kHz @ +10dBu, +/- 0.5dB
- **THD + Noise:** 20Hz – 22kHz @ +10dBu, 1W, < 0.2%
- **Dynamic Range:** 20Hz – 22kHz @ +20dB, > 102dB, with 20kHz digital low pass filter
- **Crosstalk:** Channel to Channel, stimulus at +20dBu receptor 10W output 8Ω load, 20Hz – 22kHz, < -60dB

### LED
- **4 LED indicators on one end of unit:**
  - Mute/Un-mute configuration with 8 color options, two blink patterns and warning indications

### CONFIGURATION
- Beam enable/disable
- Acoustic Echo Cancellation (AEC) on/off
- Noise Cancellation (NC) on/off
- Filters:
  - All Pass
  - Low Pass
  - High Pass
  - Notch
  - PEQ
- Automatic Level Control (ALC) on/off
- **Gain adjust**
- Mute on/off
- Auto gate/Manual gate

### P-LINK PERIPHERAL BUS
- **P-Link In & Out:** Proprietary Network
- **Ports Type:** RJ-45
- **Cable:** RJ45 Cat5e, Cat6, Expandable
- **Distance:** Up to 650 ft.
- **Daisy-Chain:**
  - Up to 3 Array units and additional P-Link compatible devices with each supported CONVERGE Pro 2 unit in the same chain
  - Up to 6 array units in the same P-Link chain with 2 supported CONVERGE Pro 2 units connected through C-Link
- **Long Distance P-Link:**
  - Increases P-Link distance from 200 ft. to 650 ft.; (200M) max cable distance between any two units; Cat6, 550 MHz, 23 AWG, solid conductor cable; Do not use Copper Clad Aluminum (CCA) cable

### POWER SELECTION SWITCH
- **Type:** Slide Switch
- Slide toward P-Link to power device by P-Link
- Slide toward PoE to power device by PoE Injector

### CONFIGURATION & ADMINISTRATION SOFTWARE
- **Pro CONSOLE® Software**

### MOUNTING
- Ceiling mount (24” or 600mm drop-ceiling grid)

### POWER & THERMAL
- **Power Type:** PoE
- **Port Type:** RJ-45
- **Power Source:** PoE Injector or equivalent
- **PoE:** IEEE 802.3at compliant devices providing 56V and 640 mA (36 W).
- **P-Link In - Mode B**
- **PoE In - Mode A and Mode B**
- *BMA CT requires its own PoE (IEEE 802.3 at compliant) if 2x10W speakers are driven
- **Power Consumption:**
  - 100-240VAC, 50/60Hz
  - 9.1 Watt typical without speaker amp
  - 38W at max power 1kHz (2 x 10W)
  - Thermal: 130 BTU/Hr at max power
  - Operating Temperature: 14° F/-10° C to 104° F/40° C ambient temperature
BMA CT

DIMENSION & WEIGHT (WxHxD)
• 24” BMA CT: 23.72 x 23.72 x 2.13” (602.5 x 602.5 x 54.1mm)
• 600 mm BMA CT: 592.5 x 592.5 x 54.1 mm (23.33 x 23.33 x 2.13”)
• Unit Weight: 7.7lbs (3.5kg)
• Shipping Weight: 11.5lbs (5.2kg)

SUPPORTED CONVERGE® PRO 2
• 910-3200-001 CONVERGE Pro 2 128
• 910-3200-001-D CONVERGE Pro 2 128D
• 910-3200-002 CONVERGE Pro 2 128T
• 910-3200-002-D CONVERGE Pro 2 128TD
• 910-3200-003 CONVERGE Pro 2 128V
• 910-3200-003-D CONVERGE Pro 2 128VD
• 910-3200-009-D CONVERGE Pro 2 128VTD
• 910-3200-005 CONVERGE Pro 2 48T
• 910-3200-006 CONVERGE Pro 2 48V
• 910-3200-008 CONVERGE Pro 2 48VT
• 910-3200-008-D CONVERGE Pro 2 48VTD
• 910-3200-004 CONVERGE Pro 2 120

ACCESSORIES
• 910-3200-202 PoE Power supply kit for BMA CT
• 910-3200-204-50 50 ft RJ45 CAT6 Cable
• 910-3200-204-100 100 ft RJ45 CAT6 Cable
• 910-3200-204-150 150 ft RJ45 CAT6 Cable
• 910-3200-204-200 200 ft RJ45 CAT6 Cable
• 910-3200-205-Al Brackets to convert 600 to 625 mm
• 910-3200-205-CB BMA CT Conduit Box

MOUNTS FOR NON-TILE CEILINGS
Refer to BMA CT Non-Tile Ceiling Mounts Tech Note for more info
• RAB Lighting SMKPANEL2X2 - Surface-mount kit
• RAB Lighting RMKPANEL2X2 - Recessed-mount kit

PART NUMBERS
• 910-3200-205: 24” White BMA CT
• 910-3200-205-i: 600 mm White BMA CT

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3rd-Party Hard-Ceiling Mount Options - RAB Lighting

BMA CT

Diagrams

3rd-Party Hard-Ceiling Mount Options - RAB Lighting

Recessed mount RMKPANEL2X2

Surface mount SMKPANEL2X2