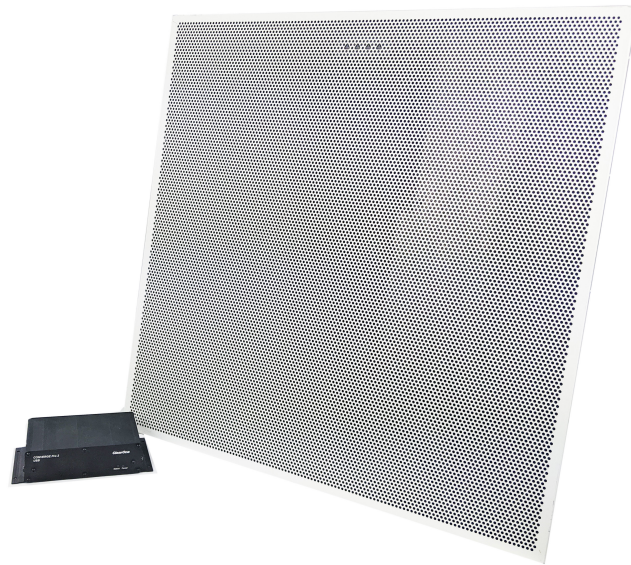


# **ClearOne**® **Aura**™

Quick-Start Guide



**Xceed™ BMA**  
**AUDIO SOLUTION**

## Contact Information

### Headquarters

5225 Wiley Post Way  
Suite 500  
Salt Lake City, UT 84116  
US: +1.801.975.7200  
International: +1.801.975.7200

### Aura Sales

US: +1.888.HEY.AURA  
International: +1.801.975.7200  
[aurasales@clearone.com](mailto:aurasales@clearone.com)

### Aura Tech Support

US: +1.888.HEY.AURA  
International: +1.801.975.7200  
[auratechsupport@clearone.com](mailto:auratechsupport@clearone.com)

## Notices

© 2021 ClearOne, Inc. All rights reserved.

Information in this document is subject to change without notice.




Document: QSG-0091-002v1.2, May 2021

# Contents

Notices .....	i
Important Safety Information .....	iii
Introduction .....	iv
Operating and System Requirements .....	iv
System Part Number.....	iv
Components .....	5
Install the Components.....	7
Connect the Components .....	8
Troubleshooting .....	11
Pair a Bluetooth Device.....	11
Compliance.....	11

# Important Safety Information

1. Read and follow all instructions.
2. Keep these instructions.
3. Do not use these devices near water.
4. Clean only with dry cloth.
5. Do not block any ventilation openings. Install in accordance with manufacturer instructions.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
7. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
8. Protect the PoE injector's power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Only use attachments/accessories specified by the manufacturer.
10. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. Disconnect the apparatus from the AC mains with the mains plug. This plug shall remain readily operable.
14. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in fire or electric shock.
15. This product can interfere with electrical equipment such as tape recorders, TV sets, radios, computers and microwave ovens if placed in close proximity.
16. Class 2 Wiring IS REQUIRED. Only qualified personnel should wire and install.
17. Underwriters Laboratories (UL) requires these safety notifications:

<p><b>WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE</b></p>		<p><b>CAUTION</b></p>		<p>Use only in non-tropical locations.</p>  <p>Use only at altitudes of 2000 meters or less.</p>
	<p>THE LIGHTING FLASH AND ARROWHEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF DANGEROUS VOLTAGE INSIDE THE PRODUCT.</p>	<p><b>RISK OF ELECTRIC SHOCK DO NOT OPEN</b></p> <p><b>AVIS RISQUE DU CHOC ELECTRIQUE - NE PAS OUVRIR</b></p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	<p>THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THE PRODUCT.</p>	
<p>SEE MARKING ON BOTTOM/BACK OF PRODUCT</p>				

## Introduction

The Xceed BMA dramatically enhances the audio and video experience for any cloud-based video collaboration application for your professional home office. It features a USB audio-enabled Beamforming Ceiling Tile Microphone Array that brings cost-effective and superb conferencing audio to your professional home office.

The BMA CTX with built-in AEC, and adaptive steering (think of it as smart switching), provides impeccable room coverage.

Also included in the Xceed BMA are the following:

- Versa USB
- PoE Injector
- All necessary CAT6 cables
- Free COLLABORATE® Space lifetime subscription - ClearOne's cloud-based video collaboration application

## COLLABORATE Space Pro

COLLABORATE Space is a powerful collaboration application with a full suite of audio, video, and meeting tools in a persistent space.



Connect hundreds of users, unifying messaging, calling and meetings for cloud collaboration.

## Optional ClearOne Peripherals

The following components are available to enhance your system:

- AUR-3200-303 Bluetooth Wall Panel
- AUR-151-010-B Passive Wall Speakers
- 910-3200-702-30 USB 3.0 Cable – 33 ft.
- 910-3001-100 Versa USB Hub
- AUR-3200-204-50 RJ45 CAT6 Cable – 50 ft.
- 693-153-050 Speaker Cable – 50 ft.

## Operating and System Requirements

### System Power and Thermal

- Port Type: RJ-45
- Power Source: PoE Injector or equivalent
- PoE: IEEE 802.3at compliant devices providing 56V and 640 mA (36 W).
- 100-240 VAC, 50/60 Hz, 3 Watts Typical
- 34 W at max power 1 kHz (2 x 10 W)
- Thermal: 130 BTU/Hr at max power
- Operating Temperature: 14 °F/-10 °C to 104 °F/40 °C ambient temperature

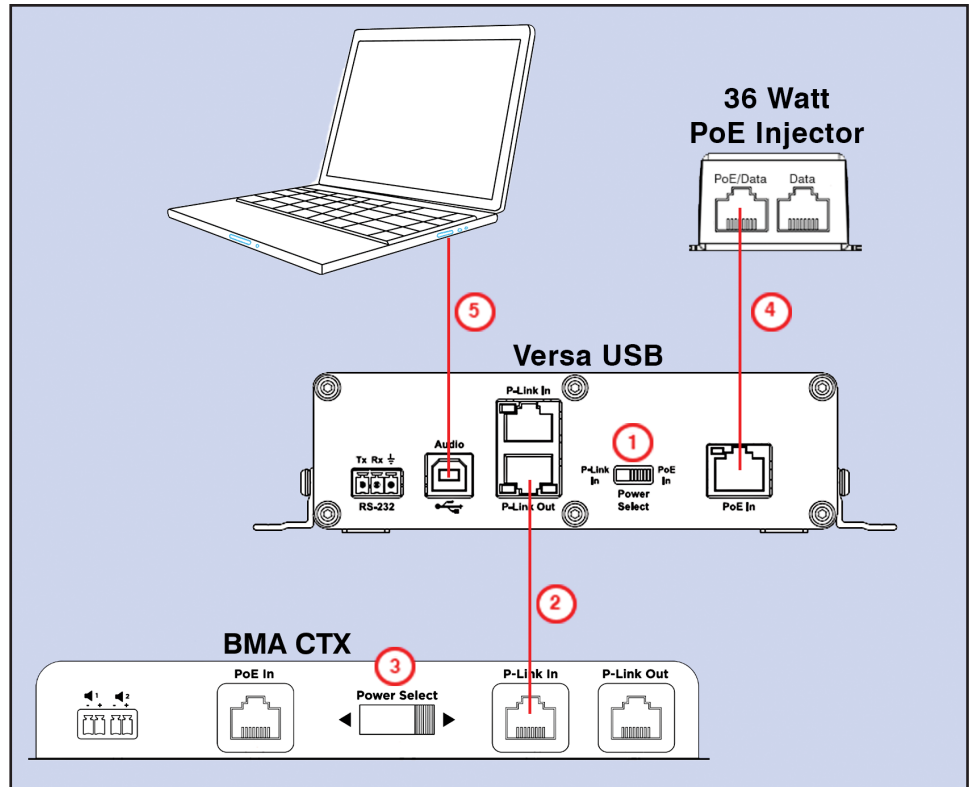
## System Part Number

- Xceed BMA: AUR-3200-010
- Xceed BMA International: AUR-3200-010-I

## Basic Xceed BMA Connections

The steps listed below and the accompanying illustration describe how to connect your Xceed BMA.

1. On the Versa USB, move the Power Select switch to the PoE In position.
2. Connect the Versa USB P-Link Out port to the BMA CTX P-Link In port.
3. On the BMA CTX, move the Power Select switch to the P-Link In position.
4. Connect the PoE injector to the Versa USB PoE In port.
5. Connect the Versa USB Audio port to your computer's USB port.



Important details related to installation, connections and testing, are provided in the following sections.

## Components

Verify that you have received all parts associated with each of the following components:

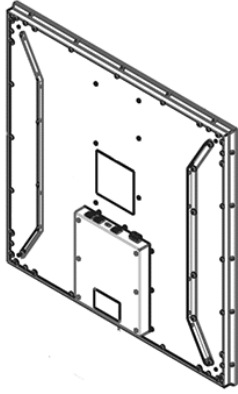
1. BMA CTX
2. BMA Surface Mount Kit
3. Versa USB
4. PoE Injector Kit
5. CAT6 Cables

Inspect your shipment carefully.

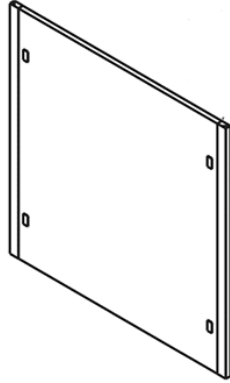
If the shipment shows obvious signs of damage, retain original boxes and packing material for inspection by the carrier, and contact the carrier immediately.

ClearOne is not responsible for product damage incurred during shipment.

### 1. BMA CTX



BMA - CTX (1)



Plenum shield (1)

### 2. BMA Surface Mount Kit



Frame piece (4)



L-shaped spring clip (4)

Includes Installation Guide

### 3. Versa USB



Versa USB (1)



USB cable, 6 ft (1)

### 4. PoE (Injector) Kit



Power supply (1)



Power cord, 6 ft.



CAT6 cable, Blue, 25 ft. (1)



CAT6 cable, Black, 25 ft. (1)

### 5. CAT6 Cables



CAT6 cable, 50 ft. (1)

# Install the Components

## BMA CTX

1. **Optional:**  
On the BMA CTX back panel (see Figure 1 on page 8), with speaker wire (not included), connect two loudspeakers to the Phoenix Euroblock connectors (a)
2. Move the Power Select sliding switch (c) to the right, towards the P-Link In connector (d)
3. Complete the steps indicated in the BMA Surface Mount Kit Installation Guide

## Versa USB

You can mount the Versa USB in the following ways:

- On the underside of a table
- On a wall

**Note:** Mounting hardware such as screws and anchors are not included with the Versa USB.

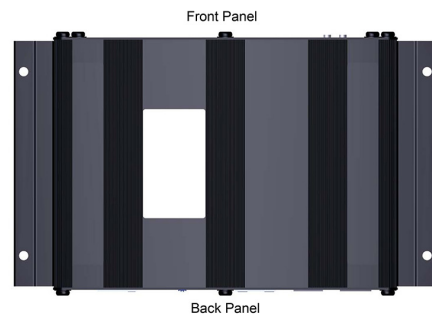
## Required Tools

- No. 1 Phillips screwdriver
- T15 Torx screwdriver
- Level (to level the Versa USB)
- Drill bits appropriate for anchors
- Electric drill
- Drywall saw (for cutting hole in wall or ceiling)

## Mount the Versa USB on the Underside of a Table

Select your hardware based on your specific installation needs.

1. Determine the location for the Versa USB.
2. Use a pencil to mark on the table the location of four mounting holes that align with the mounting holes on the Versa USB mounting ears.
3. Determine the proper depth and diameter for the holes.
4. Drill four pilot holes for #6 or M3.5 screws.
5. Align the mounting holes on the Versa USB mounting ears with the pilot holes.
6. Use four #6 or M3.5 screws to attach the Versa USB to the table.



## Mount the Versa USB on a Wall

Select your hardware based on your specific installation needs.

1. Determine location for the Versa USB.
2. Use a pencil to mark on the table the location of four mounting holes that align with the mounting holes on the Versa USB mounting ears. If needed, use a level.
3. With the proper size drill bits, drill four pilot holes for fasteners/anchors.



4. Install the fasteners/anchors in the wall.
5. Align the mounting holes on the Versa USB mounting ears with the pilot holes.
6. Use four #6 or M3.5 screws to attach the Versa USB to the wall.

**Note:** Anchors and screws to mount the Versa USB are not provided. The installer must select them for the wall material that supports the Versa USB. Exercise care when you drill and install anchors so wall material does not tear out and weaken the attachment.

## Connect the Components

### Description of Controls and Connections

#### BMA CTX

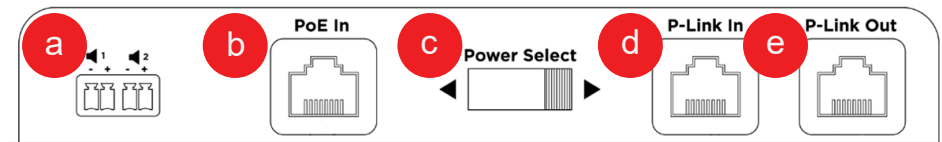


Figure 1. BMA CTX Back Panel

a	Speakers Out. Two Phoenix Euroblock connectors for external 8 ohm speakers
b	PoE In: RJ45 connector. The Xceed BMA does not use this connector.  The Versa USB provides power to the BMA CTX through the P-Link In connector.
c	Power Select sliding switch. Position determines power source – either left for PoE In or right for P-Link In.  With a Xceed BMA, this switch is set to the right for P-Link In.
d	P-Link In: RJ45 connector. Receives power, audio, and control from the Versa USB.
e	P-Link Out: RJ45 connector.  Connects to another P-Link device that requires power, such as a Bluetooth Wall Panel.



**Warning:**

Power over Ethernet (PoE) equipment used with Xceed BMA must meet the IEEE 802.3af or 802.3at standards.

You should use the PoE Power Injector provided with Xceed BMA. Other power source equipment may immediately apply power and could damage the Xceed BMA components.

## Versa USB

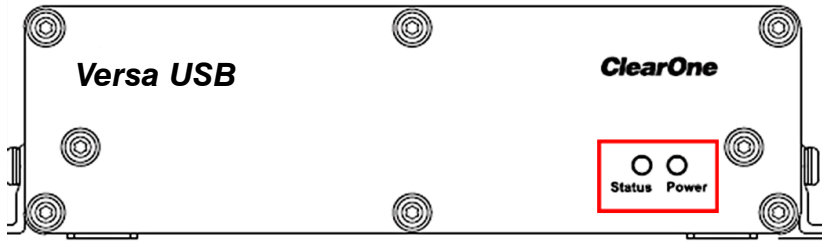


Figure 2. Versa USB Front Panel

### Status Indicator

LED Color	Meaning
Not lighted	No P-Link plugged in
Solid Blue	P-Link plugged in; system working normally
Solid Red	Error condition

### Power Indicator

LED Color	Meaning
Not lighted	Off - not powered
Solid Blue	Powered

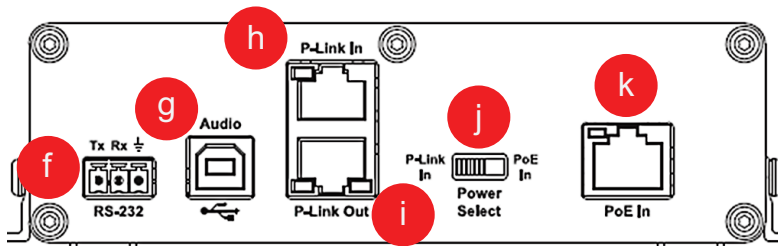
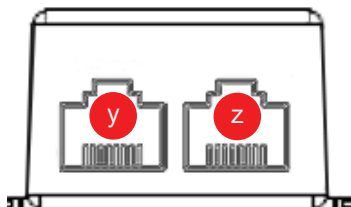


Figure 3. Versa USB Back Panel

f	RS-232. These are not used with Xceed BMA.
g	USB Type B connector. Connects to computer.
h	P-Link In. RJ45 connector.
i	P-Link Out. RJ45 connector. Connects to BMA CTX.
j	Power Select sliding switch. Position determines power source – left for P-Link In or right for PoE in. With ax Xceed BMA, this switch is set to for PoE in.
k	PoE In. RJ45 connector. Connects to the PoE Injector.

### PoE Injector




y	RJ45 connector. Used to provide power to Versa USB.
z	RJ45 connector. Not used.

Figure 4. PoE Injector Connectors

## Component Connections

In the following instructions, the letter references such as “(a)” refer to points on figures 1, 3, and 4.

Step	Actions
1.	Complete this step NOW if you did not when you installed the BMA CTX with the surface mount kit. On the BMA CTX back plane: <ul style="list-style-type: none"> <li>• With speaker wire (not included), connect the speakers to the Phoenix Euroblock connectors (a)</li> <li>• Move the Power Select sliding switch (c) to the right, towards the P-Link In connector (d)</li> </ul>
2.	On the Versa USB back panel: Set the Power select switch (j) towards PoE In.
3.	With a 50' CAT6 cable (provided): Connect the BMA CTX P-Link In connector (d) to the Versa USB P-Link Out connector (i).
4.	<b>Optional</b> If your system includes a Bluetooth Wall Panel (available separately), complete this step. If not, skip this step and proceed to step 5. With a CAT6 cable (not included): Connect the BMA CTX P-Link Out connector (e) to the Bluetooth Wall Panel.
5.	With one of the included 25 ft. CAT6 cables: Connect the Versa USB PoE In connector (k) to the PoE injector connector (y)
6.	With the provided USB cable: Connect the Versa USB Audio connector (g) to a Versa USB Hub (not included), or directly to the room PC or laptop.
7.	 <b>Caution: Complete this connection step only after you confirm that you correctly completed the previous steps!</b> With the PoE Injector: <ul style="list-style-type: none"> <li>• Attach the power cord to the power supply.</li> <li>• Connect the power cord to a standard power outlet.</li> </ul>

## Start and Test the System

Immediately after power is applied to the Xceed BMA, the system uses Auto Connect™ to recognize the system components, and Audio Intelligence™ to set channel properties.

Launch your collaboration application (COLLABORATE Space, Microsoft Teams, Zoom, etc) and with someone located at a remote location, test the system.

## COLLABORATE Space

COLLABORATE Space is a powerful collaboration application with a full suite of audio, video, and meeting tools in a persistent space.



Connect hundreds of users, unifying messaging, calling and meetings for cloud collaboration.

For more information, including instructions about how to use COLLABORATE Space, visit the ClearOne Resource Library at:

<https://www.clearone.com/rl-home>

and Browse by Solution in the CLOUD COLLABORATION section.

## Troubleshooting

Problem	Resolution
Audio with my cloud-based collaboration application is poor	Contact ClearOne Technical Support: US +1.888.HEY.AURA International: +1.801.975.7200 email: aurasales@clearone.com
Bluetooth connection does not work	See the Quick Start Guide for the ClearOne Bluetooth Wall Panel, available at the ClearOne Resource Library*.

\* The Resource Library is available at the ClearOne website ([www.clearone.com](http://www.clearone.com)) under Support & Training.

## Pair a Bluetooth Device

To pair a device that has near-field communication (NFC) capabilities:

Tap the Bluetooth Wall Panel face plate with the NFC-capable device.

This initiates a pairing between the device and the Bluetooth Wall Panel.

To pair a non-NFC device, complete the following steps:

1. On the front of the Bluetooth Wall Panel face plate, push the reset/pairing button.
2. In your Bluetooth-enabled device, navigate to your Bluetooth settings (e.g. for iOS users, Settings > Bluetooth).
3. Select "ClearOne Bluetooth xxxx" (xxxx indicates the last 4 digits of the MAC address).

When a device is paired, a short beep plays, followed by a higher frequency beep.

When a device is unpaired, a short bleep plays, followed by a lower frequency beep.

## Compliance

Details about compliance for the BMA CTX and Versa USB are available online on ClearOne's website ([www.clearone.com](http://www.clearone.com)) in the Resource Library.