



## PRODUCT INFORMATION SOURCES

- This guide covers installing and setting up the device.
- Please see the product datasheets on [Biamp.com](http://Biamp.com) for the EX-USB specifications.
- The EX-USB expander will only operate on a network that includes a Tesira DSP Audio device, A copy of the Tesira Software is required. See page 6 for details.

## INSTALLATION CONSIDERATIONS

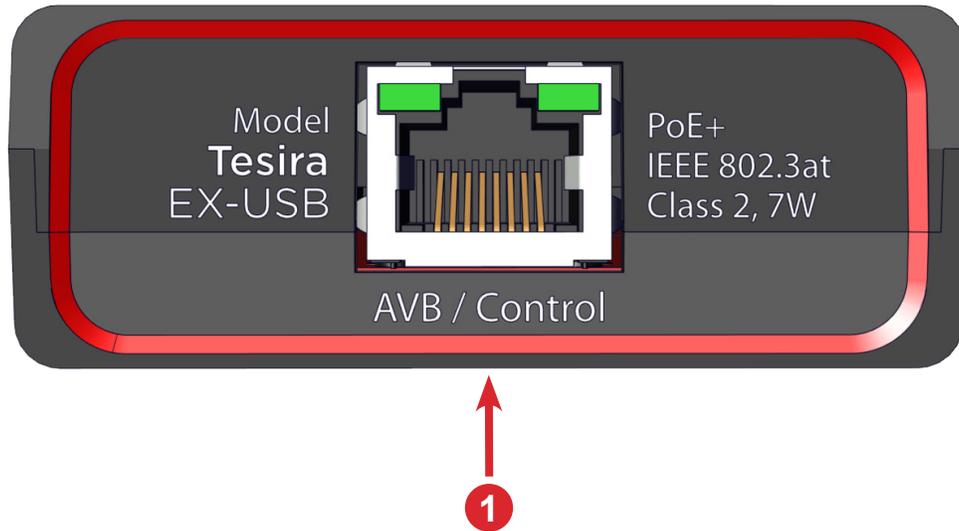
- A USB Type-A to Type-B cable is included with the device.
- Refer to maximum operational distance for cables as defined by 802.1BA AVB standard.
- The EX-USB has two mounting holes to secure the unit with hardware if desired.
- The EX-USB is a powered device that needs to be powered by power sourcing equipment that supplies 802.3at PoE+ Class 2 with 7W of budget. Examples include: an AVB switch, PoE+ injector, FORTÉ X, or TesiraCONNECT.
- If the network equipment does not support 1 Gbps, the EX-USB power LED will illuminate steady yellow but the LED on the AVB RJ45 port will remain dark indicating no data activity.





# DEVICE LAYOUT

## FRONT PANEL LAYOUT

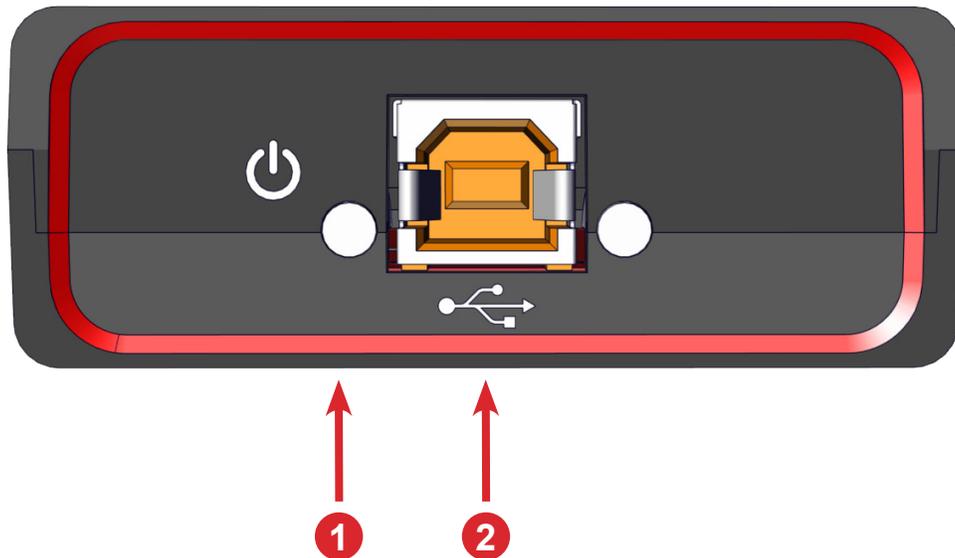


### FRONT PANEL PORTS/TERMINALS/INDICATORS

1. AVB / Control Ethernet interface

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## REAR PANEL LAYOUT



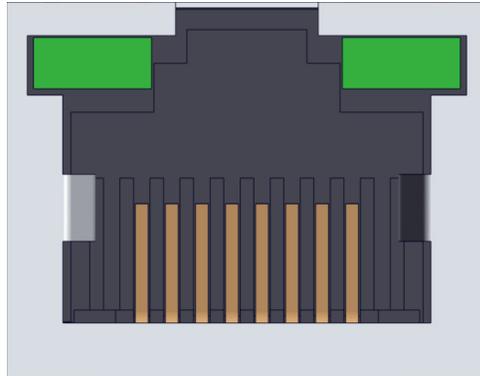
### REAR PANEL PORTS/TERMINALS/INDICATORS

1. Power / Status LED
2. USB Type-B port

# CONNECTIONS

## AVB/CONTROL

Facilitates connection to the Tesira AVB network for audio and control and supports a standard RJ-45 connector.



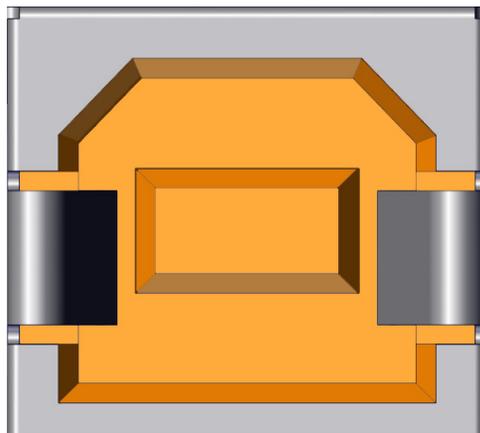
This connection is for sending and receiving AVB audio signals as well as sending and receiving data between the expander device and the Tesira system.

The expander will only operate on a network that includes a Tesira DSP Audio device.

The EX-USB is powered by PoE+ (IEEE 802.3at Class 2, 7W)

## USB TYPE-B CONNECTION

Facilitates connection to a 3rd party device that is USB Audio Class 1 compliant. Some USB function and setup (including driver installation) may be performed from a 3rd party device. See the Tesira help file for more information.



# CONNECTIONS

## POWER LED INDICATOR



**Green:**



**Yellow:**

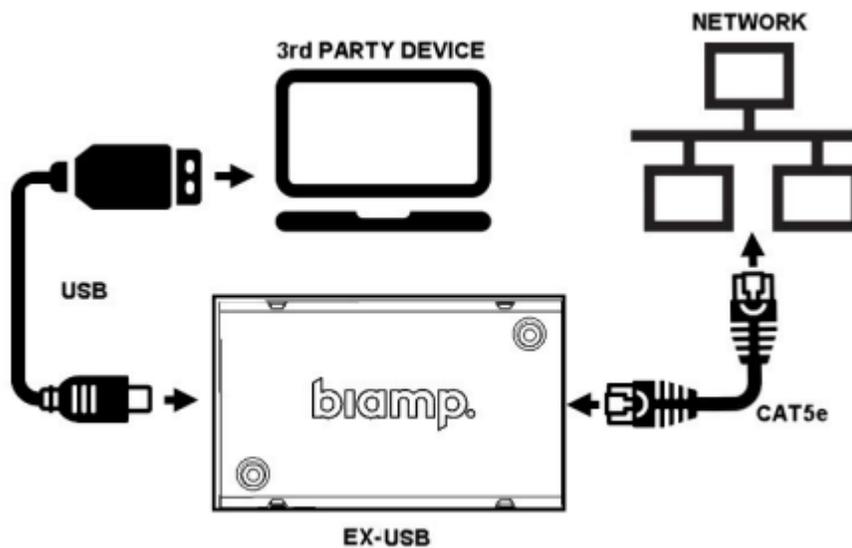


**Red:**

LED State	Green	Yellow	Red
<b>LED Off</b>	No Power / Unit Unconfigured.	No Power / Unit Unconfigured.	No Power / Unit Unconfigured.
<b>LED Solid</b>	Configured and ready to participate in the system.	Ready to receive configuration or updating firmware.	Device is powered but not ready to receive its configuration.
<b>LED Flashing</b>	Unit is in Select/Locate mode. (triggered from the software)	Unit has a Minor Alarm condition.	Unit has Major Alarm condition.

## SYSTEM DEPLOYMENT

Connections to the Tesira network are made with CAT5e cabling or better. For USB connections to a USB host device, a USB type B cable is required.



# ADDITIONAL RESOURCES

## SETUP

Use the Tesira Software when integrating the EX-USB into an AV system managed by a Tesira DSP device such as a Tesira Server or a TesiraFORTÉ.

## DOWNLOAD SITE

The software can be downloaded from Biamp.com

- Click here: [Tesira Software \(biamp.com\)](https://www.biamp.com/tesira-software)

## TESIRA HELP SYSTEM

The Tesira Software Help system provides instructions and overviews for using the Tesira Design software. It is typically embedded on digital Tesira system devices and can also be found online.

- Click here: [Tesira Help System \(Online\)](https://www.biamp.com/tesira-help-system)

## SUPPORT ARTICLES

Technical support articles for Tesira Software can be found on Biamp's Cornerstone knowledgebase support site.

- Click here: [Tesira - Biamp Cornerstone](https://www.biamp.com/tesira-biamp-cornerstone)

## TRAINING

Training courses for Tesira products and system core concepts are available online.

- Click here: [Biamp Training - In Person and Online Training, Certification Courses](https://www.biamp.com/biamp-training-in-person-and-online-training-certification-courses)

**Note:** In the above resources, explanations of EX-UBT operations not involving Bluetooth or NFC tags also apply to EX-USB.



[www.biamp.com](http://www.biamp.com)

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**Warranty:** [Biamp.com/legal/warranty-information](http://Biamp.com/legal/warranty-information)

**Safety & Compliance:** [biamp.com/compliance](http://biamp.com/compliance)