



# TESIRA<sup>®</sup>

AMPLIFIERS

biamp.



## THIS IS HOW WE DO AMPLIFIERS

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At Biamp, we understand that installing Networked Media Systems can be complicated and time consuming. Each brand present in a system design significantly increases the amount of training, education, and troubleshooting required. A potential challenge in designing a Tesira® system is that amplifiers are provided by third party manufacturers and can't be monitored, controlled, or configured using Tesira software. Until now.

*We are proud to bring you Tesira amplifiers.*

**[ WITH TESIRA AMPLIFIERS, DESIGNING A SYSTEM BECOMES EASIER & MORE STREAMLINED. ]**

## WHY AMPLIFIERS, WHY NOW?

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Tesira is not just a collection of servers and expanders, but a suite of products to help you win more projects and grow your business. It's a flexible, scalable platform that works well for a wide variety of budgets and audio applications. Still, we felt that something was missing from the product family: amplifiers.

Tesira amplifiers are a natural addition to the Tesira platform that make your job easier. With Tesira amplifiers, you can create a more complete audio system that can be designed and commissioned from one software platform. Because the software is so intuitive, adding amplifier blocks to your design files is a simple drag-and-drop.

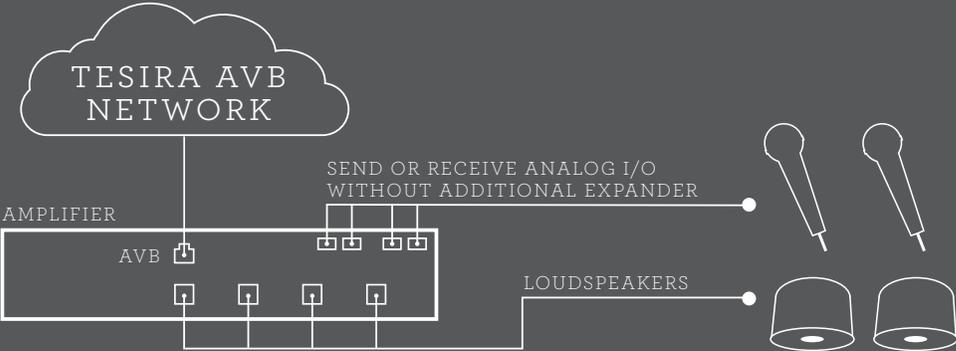


Available in four models, Tesira amplifiers serve as dedicated endpoints, making installations easier to support and maintain. All models support analog failover capabilities through optional expansion cards. These expansion cards are the same cards that are used in the Tesira EX-MOD expander. The 4-channel amplifiers include one optional I/O slot, and the 8-channel model includes two. When equipped with inputs, these I/O slots allow for an analog failover of your digital input. These cards can also act as 4-channel expanders, possibly eliminating the need to purchase an additional expander. Tesira amplifiers also feature impedance monitoring, dual AVB connections for optional network redundancy, and bridgeable channels that allow you to increase power to a loudspeaker.

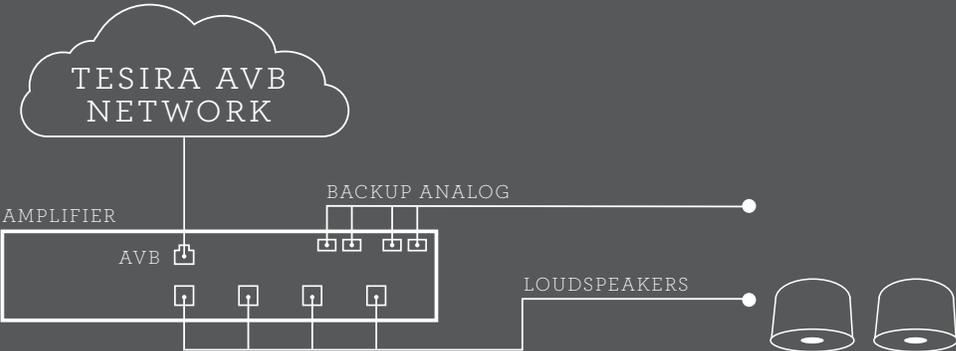
Tesira amplifiers feature a front panel display with capacitive touch buttons that allow you to perform common adjustments such as muting a signal, troubleshooting issues, or local fine tuning during commissioning. The front panel display includes a screen that provides quick feedback on the performance and health of individual channels, as well as the overall unit. Advanced changes can be made using Tesira software.

System design is easier and more streamlined with Tesira amplifiers. Purchasing a more complete system from a single vendor simplifies your supply chain, leverages your investment in training, creates opportunity for greater profitability, and reduces troubleshooting.

**LOCAL EXPANDERS**



**ANALOG FAILOVER**



## WHERE TESIRA AMPLIFIERS WORK BEST

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Tesira amplifiers are an excellent choice for lecture halls, houses of worship, courtrooms, and hospitality facilities. With a Tesira amplifier, the audio signal and other communication with the Tesira system is handled entirely over Cat-5 (or better) cabling. Ethernet cable runs are less expensive and offer better performance than analog cabling over long distances. As an added benefit, the dual AVB connections offer the capacity for network redundancy when needed.

### Room Combining

Hotels, convention centers, and other hospitality spaces often have onsite ballrooms that can be combined into one large space or divided into several smaller ones. Tesira amplifiers can be programmed to broadcast audio only to a specific area if the ballroom is divided, or to the entire ballroom if the space is left open. All of the logic and combining of the audio matrix for these rooms is handled in the room combiner block, intelligently sending the right sources to the right amplifier outputs without any need for a system operator.

### Mix-Minus

In a mix-minus scenario, where you attenuate microphones to nearby ceiling loudspeakers with an auto mixer, the Tesira AMP-8175R model is an excellent choice. A good mix-minus system maximizes the direct drive of individualized loudspeakers, and an ideal implementation includes a dedicated signal going to each loudspeaker.

**BECAUSE TESIRA AMPLIFIERS CAN RECEIVE A SIGNAL FROM ANYWHERE IN THE AUDIO NETWORK, THEY OFFER GREATER FLEXIBILITY IN SOUND REINFORCEMENT & DISTRIBUTION.**

### Sound Reinforcement

Lecture halls present acoustical challenges due to reflective surfaces or constraints on microphone and loudspeaker placement. Advanced software capabilities like auto mixers and dynamic processing eliminate the need for manual adjustment of these rooms. Tesira amplifiers offer greater flexibility in sound reinforcement and distribution because they can receive a signal from anywhere in the audio network.

### Distributed Sound

In some installations you need to distribute a relatively small number of signals to a very large number of zones over large distances. Shopping malls, theme parks, transportation facilities, and convention centers are just a few examples where the entire suite of Tesira amplifiers is useful. With all audio served on an AVB/TSN network, cable runs can be up to 100 meters between devices and the installation and termination of the cables does not require an audio expert. In distributed sound applications, the endpoints (amplifiers) are often located far from the central point of processing and control. The monitoring and reporting features available in Tesira amplifiers make commissioning and maintenance of these remote devices faster.

## WHAT'S THE BENEFIT?

### Comprehensive Monitoring and Fault Reporting

Tesira software provides real-time health and performance information on Tesira amplifiers. This gives you the added capability of remotely monitoring the entire Tesira system throughout installation and commissioning, as well as during routine maintenance phases for the life of the system. Monitoring capabilities are not limited to the health of the Tesira system — they also provide information on the functional condition of the loudspeakers connected to each amplifier.

### Optional I/O Card Slots

Each 4-channel model supports one optional EX-MOD card, while the 8-channel AMP-8175R supports up to two EX-MOD cards. You choose whether to designate a slot as an expander or as an analog failover, allowing you to route the audio signal to one of the analog inputs if one of the digital channels fails. The cards can be configured so that some of the inputs are analog failover inputs and other channels are expander inputs or outputs, even on the same card. Because the AMP-8175R model supports two cards, one card can be designated as an analog failover and one as an expander, or each card could act as an I/O expander without the need to place a separate expander in the room, saving money. The card(s) will function as an expander even if the amplifier is in sleep mode.



## AVAILABLE MODELS

AMP-4175R:  
4-channel, 175W

AMP-4300R CV:  
4-channel, 300W, constant voltage

AMP-4350R:  
4-channel, 350W

AMP-8175R:  
8-channel, 175W

## WHEN YOU NEED TRAINING & SUPPORT, WE'VE GOT YOUR BACK.

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Our Technical Support team consistently wins accolades for the high level of service they provide to our customers every day. With unparalleled worldwide support, Biamp's applications engineers walk you through solutions, and assist you with new system designs, programming, or troubleshooting. They also deliver our in-person and online equipment and concept trainings. From webinars and tutorials on YouTube®, to articles and tech notes on Cornerstone — our online technical support knowledgebase — to in-person multi-day certification trainings, Biamp invests in your success.

Tesira amplifiers are backed by our 5-year warranty, and training is available as part of the in-person Tesira certification training course. To learn more about upcoming courses and schedules, visit [biamp.com/training](https://biamp.com/training).



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