Biamp Tesira Forte AVB TI

Biamp System Tesira Forte AVB TI Digital Audio Signal Processor User Manual

Model: Tesira Forte AVB TI

1. Product Overview

The Biamp Tesira Forte AVB TI is a digital audio signal processor designed for professional audio environments. It integrates Audio Video Bridging (AVB) technology for reliable, low-latency audio networking, making it suitable for conference rooms, lecture halls, and other installations requiring advanced audio routing and processing capabilities. This unit is rack-mountable and supports a maximum sampling rate of 48kHz.



Figure 1.1: Front view of the Tesira Forte AVB TI processor, highlighting the user interface and rack-mountable design.

2. Key Features

- **Brand:** Biamp
- **Model:** Tesira Forte AVB TI
- **Type:** Digital Audio Processor
- **Maximum Sampling Rate:** 48kHz
- **Form Factor:** Rack Mountable

- Integrated Audio Video Bridging (AVB) for networked audio.
- Advanced digital signal processing capabilities.
- Multiple input and output channels for versatile connectivity.

3. Package Contents

Please verify that all items are present and in good condition upon unpacking.

- Biamp Tesira Forte AVB TI Digital Audio Signal Processor Unit
- Power Cable (100-240V, 50/60Hz compatible)
- Rack Mount Ears and Screws
- Quick Start Guide
- Safety and Regulatory Information

4. Safety Information

Read all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the unit.

- **Power Source:** Connect the unit only to a power source within the specified voltage range (100-240V AC, 50/60Hz).
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings.
- **Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids on the unit.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Grounding:** Always ensure the unit is properly grounded.

5. Setup

Follow these steps to set up your Tesira Forte AVB TI processor.

1. **Rack Mounting:** If rack mounting, attach the provided rack ears to the sides of the unit using the included screws. Secure the unit into a standard 19-inch equipment rack.
2. **Power Connection:** Connect the power cable to the AC inlet on the rear panel of the unit and then to a suitable power outlet.
3. **Network Connection (AVB):** Connect an Ethernet cable from the AVB port on the rear panel to an AVB-enabled network switch. This is crucial for networked audio communication.
4. **Control Network Connection:** Connect another Ethernet cable from the Control port to your control network for system configuration and management via Biamp software.
5. **Audio Input/Output Connections:** Connect your audio sources (microphones, line-level devices) to the input ports and your audio destinations (amplifiers, speakers) to the output ports using appropriate cabling. Refer to the rear panel diagram for port identification.

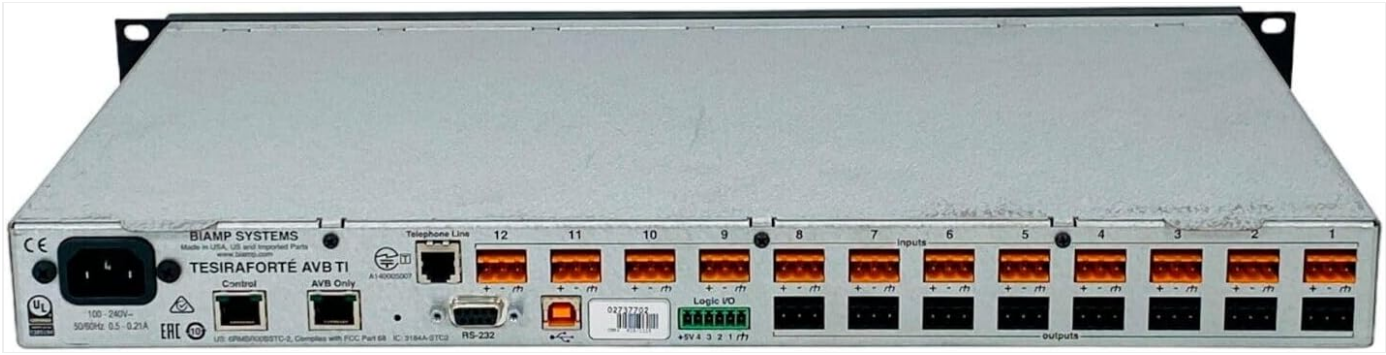


Figure 5.1: Rear panel connections of the Tesira Forte AVB TI, illustrating power, network, and audio I/O ports.

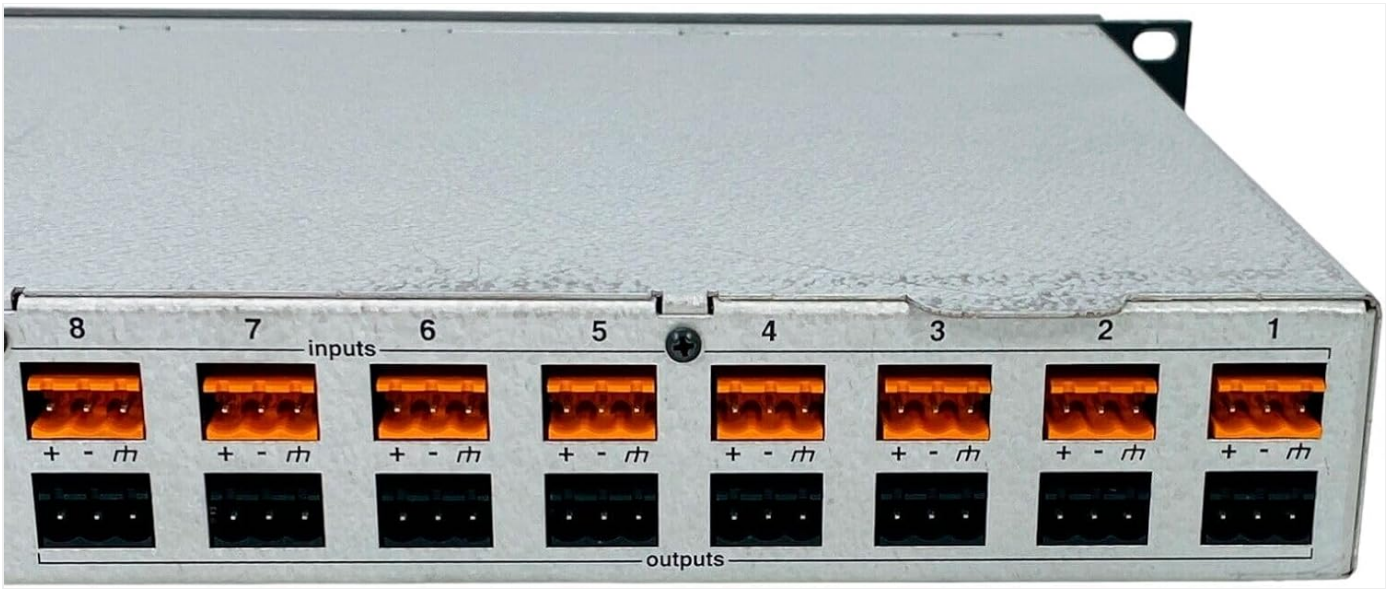


Figure 5.2: Detail of the analog audio input and output terminals, indicating polarity and ground connections.

6. Operating Instructions

Once the unit is physically connected, you will need to configure it using Biamp's Tesira software suite.

- **Power On:** After all connections are secure, press the power button on the front panel. The unit will initiate its boot sequence.
- **Software Configuration:**
  - Download and install the latest Tesira software from the official Biamp website.
  - Launch the software and discover the Tesira Forte AVB TI unit on your network.
  - Design your audio system, including routing, processing, and control logic, within the software.
  - Upload the configuration to the Tesira Forte unit.
- **Front Panel Controls:** Use the navigation buttons and display on the front panel for basic status monitoring and limited local control, as defined in your software configuration.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your Tesira Forte AVB TI.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris. Ensure proper airflow around the unit.
- **Firmware Updates:** Regularly check the Biamp website for firmware updates. Keeping the firmware current ensures

access to the latest features and bug fixes. Follow the instructions provided by Biamp for firmware update procedures.

- **Connection Checks:** Periodically inspect all cable connections (power, network, audio) to ensure they are secure and free from damage.

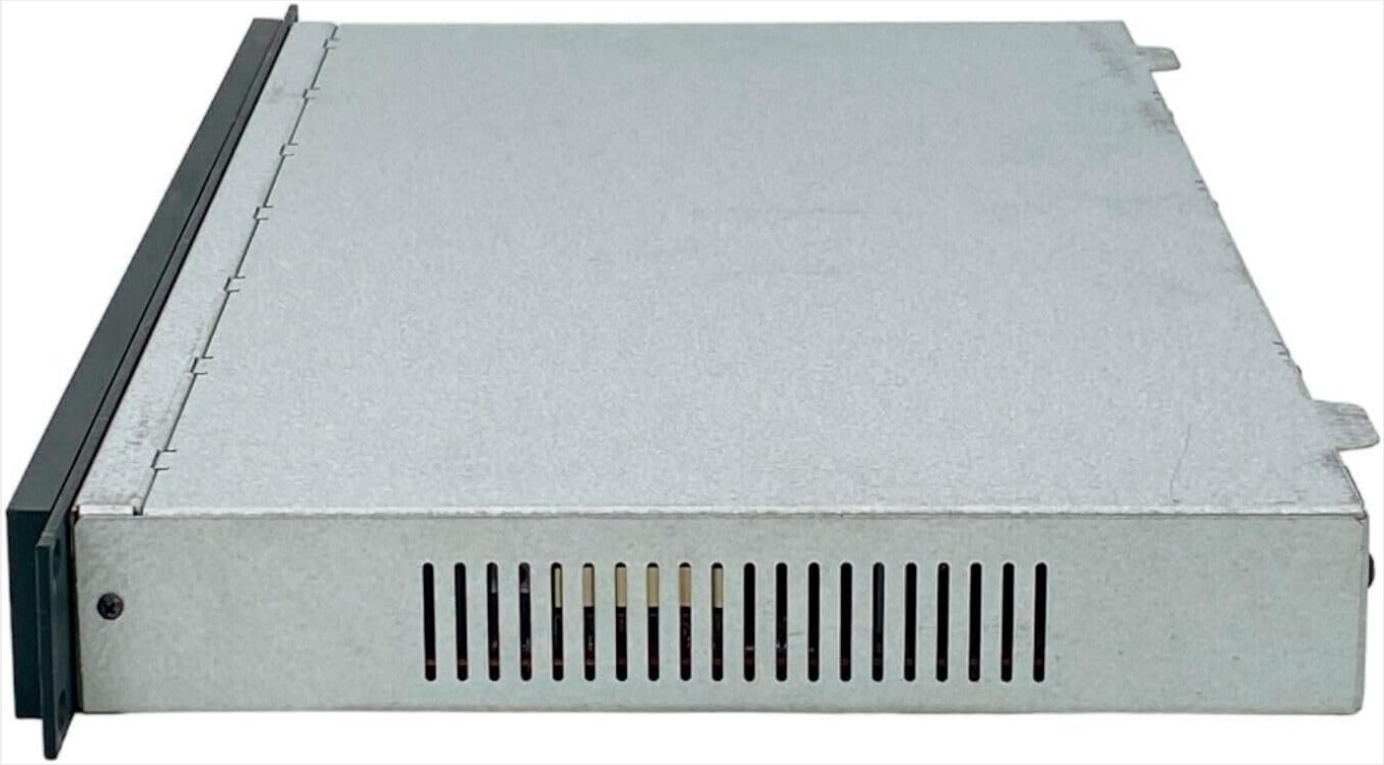


Figure 7.1: Side view of the unit, highlighting the ventilation slots critical for heat dissipation.

8. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Unit does not power on.	No power, faulty power cable, or power outlet issue.	Check power cable connection. Verify power outlet is active. Try a different power cable.
No audio output.	Incorrect wiring, software configuration error, or muted channels.	Verify audio cable connections. Check Tesira software for correct routing and unmuted channels. Ensure output devices are powered and functional.
Unit not detected on network.	Incorrect network settings, faulty Ethernet cable, or network switch issue.	Ensure Ethernet cables are securely connected to both Control and AVB ports. Verify network switch is operational and configured correctly for AVB. Check IP address settings in Tesira software.
Distorted audio.	Input levels too high, faulty cable, or incorrect impedance matching.	Adjust input gain levels in Tesira software. Check audio cables for damage. Ensure impedance matches between devices.

9. Specifications

Attribute	Detail
Brand	Biamp
Model	Tesira Forte AVB TI
Type	Digital Audio Processor
Maximum Sampling Rate	48kHz
Form Factor	Rack Mountable
Item Weight	5 pounds
ASIN	B0CN7D6F79
Date First Available	November 13, 2023

10. Warranty and Support

For specific warranty information, please refer to the documentation included with your product or visit the official Biamp website. Biamp provides comprehensive technical support for its products.

- **Online Resources:** Visit www.biamp.com for product documentation, software downloads, and support articles.
- **Technical Support:** Contact Biamp technical support directly for assistance with installation, configuration, or troubleshooting issues. Contact details can be found on their website.

© 2024 Biamp Systems. All rights reserved. Information subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question