

DATA SHEET

TESIRA® EX-IN, EX-AEC, EX-OUT, EX-IO 4-CHANNEL INPUT AND OUTPUT EXPANDERS



The Tesira® EX-IN, EX-AEC, EX-OUT, and EX-IO are half-rack expander units for use with Tesira SERVER, SERVER-IO, and TesiraFORTÉ AVB devices. Each expander provides a total of 4 channels of analog audio. The EX-IN is a 4-channel mic/line level input expander, and the EX-AEC is a 4-channel mic/line level input expander with AEC (acoustic echo cancellation). The EX-OUT is a 4-channel mic/line level output expander, and the EX-IO provides two channels of mic/line level input and two channels of mic/line level output. The expanders communicate with the Tesira AVB network for audio networking, configuration and control, and are powered by PoE+ (IEEE 802.3at Class 4, 30W).

BENEFITS

- Input and output expanders allow placement of audio I/O in remote locations
- Expanders can be added to existing Tesira and TesiraFORTÉ installations as the system's needs change and grow
- Half-rack chassis facilitates discreet and convenient installation without the need for an equipment rack
- Fully configurable and controllable via the software

FEATURES

- Audio and control networking over AVB
- Powered by PoE+ (IEEE 802.3at Class 4, 30W)
- Plug-in barrier strip connectors
- Front panel LEDs for device status indications
- Half-rack chassis
- RoHS compliant and AES grounded
- Covered by Biamp Systems' 5-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The 4-channel expanders shall be designed exclusively for use with Tesira® devices. The expanders shall be built in a half-rack chassis and be powered by PoE+ (IEEE 802.3at Class 4). The expander shall utilize the AVB network for all audio networking as well as software configuration and control. The input, AEC, and input/output expander shall receive mic or line level analog input on plug-in barrier strip connectors. The output and input/output expander shall deliver mic or line level analog output on plug-in barrier strip connectors. Analog-to-Digital and Digital-to-Analog conversion shall be 24-bit with a sampling rate of 48kHz. The expanders shall be CE marked, UL listed and compliant with the RoHS directive. Warranty shall be 5 years. The input expander shall be Tesira EX-IN. The input expander with AEC shall be Tesira EX-AEC. The output expander shall be Tesira EX-OUT. The input/output expander shall be Tesira EX-IO.

TESIRA EX-IN, EX-AEC, EX-OUT AND EX-IO SPECIFICATIONS

| | | | |
|--|----------------------------------|--|-----------------------------------|
| Frequency Response (20Hz-20kHz @ +4dBu): | +0/-0.25dB | Phantom Power: * | +48 VDC (7mA/input) |
| THD+N (20Hz-20kHz):* @ 0dB Gain, +4dBu In: | < 0.006% | Cross Talk (channel to channel @ 1kHz):* @ 0dB Gain, +4dBu In: | < -85dB |
| @ 54dB Gain, -50dBu In: | < 0.040% | @ 54dB Gain, -50dBu In: | < -75dB |
| EIN (20Hz-20kHz, 66dB Gain, 150Ω):* | < -125dBu | Overall Dimensions: | |
| Dynamic Range (20Hz-20kHz, 0dB):* | > 108dB | Height: | 1.75 inches (44 mm) |
| Tail Length:** | up to 300ms | Width: | 8.5 inches (216 mm) |
| Convergence:** | up to 100dB/sec | Depth: | 7.75 inches (197 mm) |
| Input Impedance (balanced):* | 8kΩ | Weight: | 3 lbs (1.4 kg) |
| Maximum Input:* | +24dBu | Sampling Rate: | 48kHz |
| Input Gain Range (6dB Steps): | 0 - 66dB | A/D - D/A Converters: | 24-bit |
| Output Impedance (balanced):*** | 200Ω | Compliance: | |
| Maximum Output:*** | +24dBu | | FCC Part 15B (USA) |
| Power: | PoE+ (IEEE 802.3at Class 4, 30W) | | CE marked**** (Europe) |
| | | | UL and C-UL listed (USA & Canada) |
| | | | RCM (Australia) |
| | | | EAC (Eurasian Customs Union) |
| | | | RoHS Directive (Europe) |

* Specification applies to EX-IN, EX-AEC, or input channels of EX-IO
** Specification applies to EX-AEC

*** Specification applies to EX-OUT or output channels of EX-IO
**** Requires PoE+ insertion device to be CE marked

TESIRA EX-IN, EX-AEC, EX-OUT AND EX-IO BACK PANELS

