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

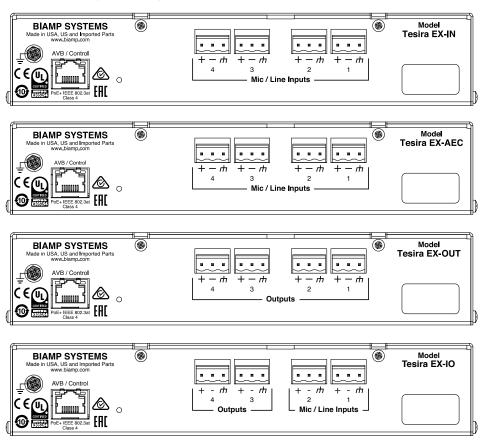
The 4-channel expanders shall be designed exclusively for use with Tesira® devices. The expanders shall be built in a half-rack chassis and be powered by PoE+ (IEEE 802.3at Class 4). The expander shall utilize the AVB network for all audio networking as well as software configuration and control. The 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

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

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





 $^{^{\}ast}$ 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