

Tesira® EX-IN, EX-OUT, EX-IO 4-Channel Input and Output Expanders DATA SHEET



The Tesira® EX-IN, EX-OUT and EX-IO are half-rack expander boxes for use with Tesira SERVER and SERVER-IO devices. Each expander provides 4 total channels of analog audio. The EX-IN is a 4-channel mic/line input expander, the EX-OUT is a 4-channel line level output expander and the EX-IO provides 2 channels of mic/line input and 2 channels of line level output. The expanders communicate with the Tesira AVB network for audio networking, configuration, and control and are powered by PoE+.

BENEFITS

- Input and Output expanders allow remote placement of input and output signals
- Expanders can be seamlessly added to existing Tesira 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 in software

BENEFITS

- Audio and control networking over AVB
- Powered by PoE+
- 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 Server devices. The expanders shall be built in a half-rack chassis and be powered from PoE+. The expander shall utilize the AVB network for all audio networking as well as software configuration and control. The input and input/output expander shall receive mic or line level analog input on plug-in barrier strip connection. The output and input/output expander shall deliver line level analog output on plug-in barrier strip connection. Analog-to-Digital and Digital-to-Analog conversion shall be 24-bit with a sampling rate of 48kHz. The expanders shall incorporate AES48-2005 Grounding and EMC practices and shall be compliant with EU Directive 2002/95/EC, the RoHS Directive. Warranty shall be 5 years. The input expander shall be Tesira EX-IN. The output expander shall be Tesira EX-OUT. The input/output expander shall be Tesira EX-IO.

EX-IN, EX-OUT and EX-IO SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.25dB	Phantom Power:*	+48 VDC (7mA/input)
THD+N (20Hz~20kHz):*		Input Gain Range (6dB steps):*	0 - 66dB
@ 0dB Gain, +4dBu In	< 0.006%		
@ 54dB Gain, -50dBu In	< 0.040%		
EIN (20Hz~20kHz, 66dB Gain, 150 ohm):*	< -125dBu	Sampling Rate:	48kHz
Dynamic Range (20Hz~20kHz, 0dB):*	> 108dB	A/D – D/A Converters:	24-bit
Input Impedance (balanced):*	8k ohm	Power:	PoE+ IEEE 802.3at Class 3
Output Impedance (balanced):**	200 ohm	Overall Dimensions:	
		Height:	1.5 inches (38 mm)
		Width:	8.5 inches (216 mm)
		Depth:	7.75 inches (197 mm)
Cross Talk (channel to channel @ 1kHz):*		Weight:	3 lbs (1.4 kg)
@ 0dB Gain, +4dBu In	< 85dB	Compliance:	FCC Part 15B (USA)
@ 54dB Gain, -50dBu In	< 75dB		CE Marked*** (Europe)
			C-Tick (Australia)
			RoHS Directive (Europe)
Maximum Input: *	+24dBu		
Maximum Output:**	+24dBu		

* Specification applies to EX-IN or input channel of EX-IO

** Specification applies to EX-OUT or output channel of EX-IO

*** Requires PoE+ insertion device to be CE Marked

EX-IN, EX-OUT and EX-IO BACK PANEL

