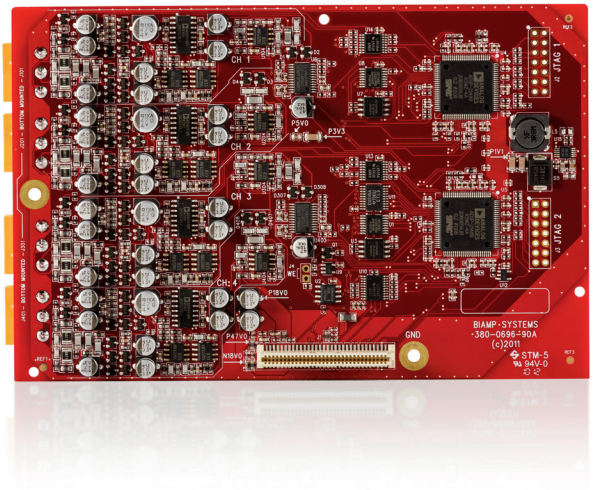
# DATA SHEET
# TESIRA® EEC-4
# 4-CHANNEL EXPANDER INPUT CARD WITH AEC



The Tesira EEC-4 is an expander card with 4 analog input channels that includes AEC (Acoustic Echo Cancellation) for use with the Tesira EX-MOD device. The EEC-4 is one of several optional cards that can be installed in Tesira EX-MOD. Each EEC-4 provides 4 channels of mic/line level audio input with AEC. The inputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert.

## BENEFITS

- Modular input card can be mixed-and-matched in Tesira EX-MOD
- Large input gain sensitivity allows for analog input from virtually any source
- Sona™ Acoustic Echo Cancellation
- Fully configurable and controllable with software
- Premium quality pre-amp for clean, natural sound

## FEATURES

- 4 channels of balanced mic or line level input with AEC (Acoustic Echo Cancellation)
- Plug-in barrier strip connectors
- 0–66dB gain, adjustable in 6dB increments
- Clip indicator
- +48V Phantom Power
- -100dB to +12dB fader range for level
- Signal invert for reverse polarity
- RoHS compliant and AES grounded
- Covered by Biamp Systems' 5-year warranty

## ARCHITECTS & ENGINEERS SPECIFICATION

The mic/line input shall be a 4-channel card designed exclusively for use with Tesira EX-MOD. The modular card shall provide 4 balanced inputs with AEC on plug-in barrier strip connections. Software configuration and control for each input shall include gain with clip indication, phantom power on/off, mute, level, and signal invert. Analog-to-Digital conversion shall be 24-bit with a sampling rate of 48kHz. Performance specifications (20Hz-20kHz) shall be: Frequency Response +0/-0.25dB; THD+N <0.006% (line), <0.040% (mic); EIN <-125dBu; and Dynamic Range >108dB. The modular input card shall incorporate AES48-2005 Grounding and EMC practices and shall be compliant with the RoHS Directive. Warranty shall be 5 years. The input card shall be called Tesira EEC-4.

## EEC-4 SPECIFICATIONS

| | | | |
|---|---|---|---|
| **Frequency Response (20Hz~20kHz @ +4dBu):** | +0/-0.25dB | **Phantom Power:** | +48 VDC (7mA/input) |
| **THD+N (20Hz~20kHz):*** | | **Cross Talk (channel to channel @ 1kHz):** | |
| **@ 0dB Gain, +4dBu In** | < 0.006% | **@ 0dB Gain, +4dBu In** | < 85dB |
| **@ 54dB Gain, -50dBu In** | < 0.040% | **@ 54dB Gain, -50dBu In** | < 75dB |
| **EIN (20Hz~20kHz, 66dB Gain, 150Ω):** | < -125dBu | **Input Gain Range (6dB Steps):** | 0 - 66dB |
| **Dynamic Range (20Hz~20kHz, 0dB):** | > 108dB | **Sampling Rate:** | 48kHz |
| **Tail Length:** | up to 300ms | **A/D – D/A Converters:** | 24-bit |
| **Convergence:** | up to 100dB/sec | **Compliance:** | AES48-2005 Grounding and EMI practices<br>RoHS Directive (Europe) |
| **Input Impedance (balanced):** | 8kΩ | | |
| **Maximum Input:** | +24dBu | | |
| **Maximum Gain:** | 66dB | | |