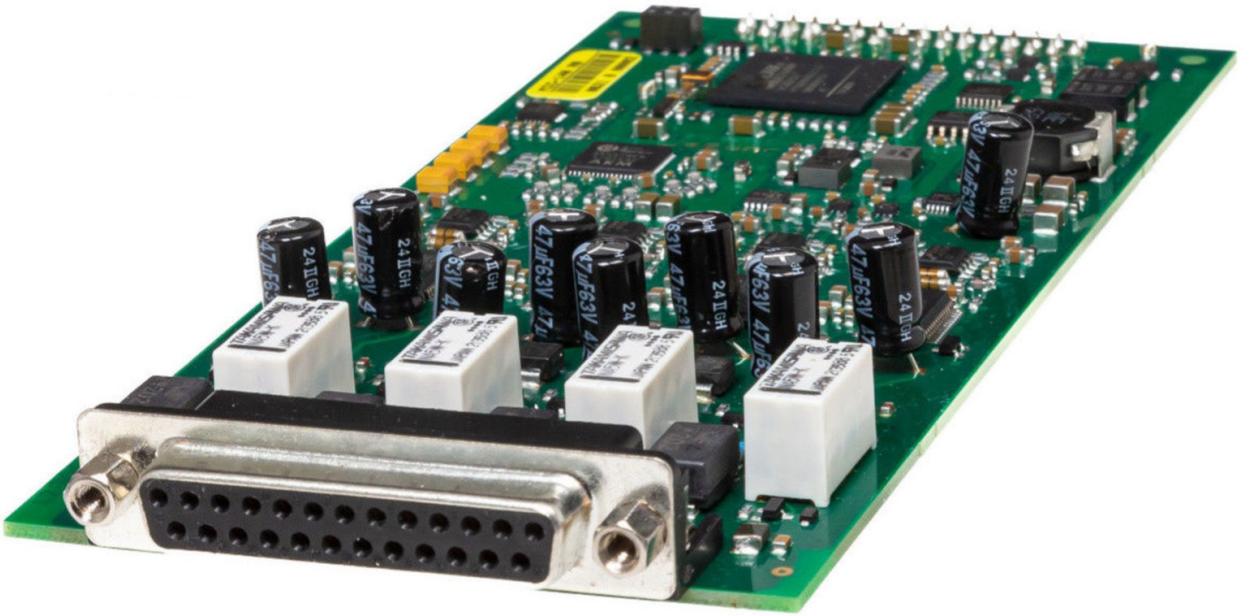
AIXpressor Microphone Input Option Board



Overview

The Microphone Input Option Board provides four analog mic inputs for the AIXpressor. It is perfectly suited for both condenser and dynamic microphones (either moving coil or ribbon), and demanding high-gain applications including radio and television, and small production setups.

Features

- Mic or line input
- Up to 65dB of gain
- Individual per-channel +48V phantom power
- Full frequency response
- Wide dynamic range
- Extremely low noise
- 25-pin Sub-D female connector

Specifications

Inputs

- Four independent microphone or line-level inputs

Connector

- 25-pin Sub-D female, wired to standard TASCAM® pin-out

Microphone Pre-amplifiers

- Input impedance: 9k Ohm, balanced
- Nominal level range: Adjustable, -71dBU to -6dBU; +4dBU with pad
- Gain range: -10dB (pad), 0dB, 10db - 65dB
- Input headroom: 20dB above nominal input
- Phantom power: +48VDC, individually switchable per channel

Analog Line Inputs

- Input impedance: 20k Ohm balanced with input pad active
- Nominal input: +4dBu
- Input headroom: 20dB above nominal input (+24dBu clipping level)

Audio Specifications

- Frequency response: +/- 0.1dB, 11Hz - 22kHz
- Digital output sample rate: 48kHz
- Dynamic range:
  - 10dB gain, RMS unweighted: 115.3dB
  - 10dB gain, A-weighted: 118.0dB
  - Max gain, RMS unweighted: 77.0dB
  - Max gain, A-weighted: 79.2dB
- Equivalent input noise, Mic preamp, 150 Ohm source, max gain: 128dB
- Total Harmonic Distortion + Noise:
  - -3dBFS, 1kHz, 10dB gain: 0.00075%
  - -3dBFS, 1kHz, 40dB gain: 0.0075%
  - -3dBFS, 1kHz, max gain: 0.020%
- Crosstalk Isolation:
  - Analog channel-to-channel isolation, line level input, 20Hz to 20kHz at max gain: Minimum 90dB
  - Analog channel-to-channel isolation, line level input, 20Hz to 20kHz at 10dB gain: Minimum 118dB
- CMRR: 20Hz - 20kHz, Minimum 55dB