BIAMP®

RoHS Compliant EU 2002/95/EC
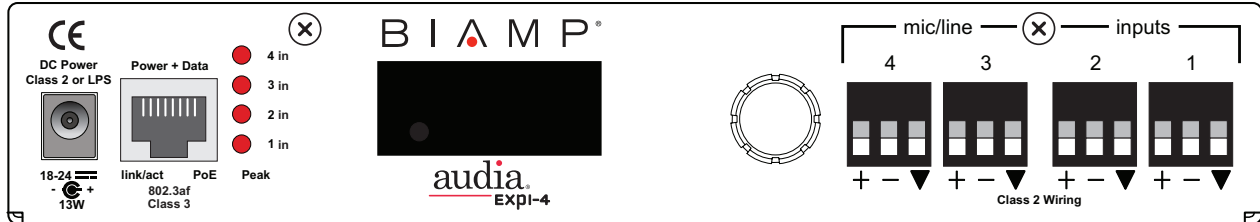

AudiaEXPI-4 is an input expander for Audia®, the benchmark in digital audio systems for demanding professional sound installations. AudiaEXPI-4 accepts four mic/line analog audio inputs and provides four channels of digital audio output via CobraNet®. AudiaEXPI-4 can simply add inputs to a centralized system, or it can extend system boundaries by providing inputs in remote locations. AudiaEXPI-4 can be powered locally from an external DC power supply or remotely via Power over Ethernet (PoE). AudiaEXPI-4's small size and mounting features make it easy to install near sources to reduce noise pickup and cable lengths. AudiaEXPI-4 is represented as a block in Audia software, for easy inclusion into any system design. AudiaEXPI-4 may also be used to provide inputs to other CobraNet compliant systems or devices.

FEATURES

- 4 mic/line analog inputs on plug-in barrier strips
- Front panel input level control and peak indicators
- 24-bit A/D converters with 48kHz sample rate
- +48VDC Phantom Power for input (IEC1938 Compliant)
- 4 channels of digital audio output via CobraNet
- Rotary encoder with LCD for programming/setup
- Included as block in Audia system design software

- May be used with any CobraNet compliant system
- Powered by PoE (Power-over-Ethernet) or external DC source
- **RoHS** compliance and **AES** grounding practices
- **CE** marked
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The Input Expander shall provide four mic/line analog audio inputs on front-panel plug-in barrier strip connectors. Front-panel level control and peak indicators shall be provided for adjustment of the analog audio input signals. Internal analog-to-digital signal conversion shall be 24-bit, with a sample rate of 48kHz. Four channels of digital audio output shall be provided via CobraNet, on a front-panel RJ45 connectors. A rotary encoder and LCD screen shall be provided on the front-panel for programming and setup. The Input Expander shall be powered by IEEE-standard 802.3af Power-over-Ethernet as a Class 3 device or from an external +18-24VDC @ 13W Class-III power source. The Input Expander shall be represented as a functional block within Audia software, for easy inclusion into system designs. The Input Expander shall also be capable of providing additional analog audio inputs to other CobraNet compliant systems or devices. The Input Expander shall be CE marked, shall incorporate AES48-2005 Grounding & EMC practices. The Input Expander shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years. The Input Expander shall be AudiaEXPI-4.

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AudiaEXPI-4 SPECIFICATIONS

Frequency Response (20Hz-20kHz @ -20dBFS):		+0/-0.4dB
THD+N (20Hz-20kHz @ -20dBFS):		
line level (0dBu):		<0.0065%
mic level (-60dBu):		<0.045%
EIN (20Hz-20kHz, 66dB gain, 150 ohm):		-125dBu
Dynamic Range:		>107dB
Maximum Gain (input channels):		66dB
Crosstalk (channel-to-channel @ 1kHz):		
line level		< -90dB
mic level		< -80dB
Input Impedance (mic/line balanced):		6.6k ohms
Maximum Input (mic/line):		+23dBu
Phantom Power:		+48V @ 10mA
		(compliant with IEC 1938)

Input Gain Range (variable in 6dB steps):	0 - 66dB
A/D Converters:	24-bit (48kHz sampling)
Power Consumption:	< 13W
Dimensions:	
height	1.5 inches (38mm)
width	8.5 inches (216mm)
depth	6 inches (152mm)
Weight:	3 lbs. (1.36kg)
Compliance:	AES48-2005 Grounding & EMC practices
	IEC 1398 Phantom Power
	IEEE 803.3af PoE
	EU Directive 2002/95/EC, RoHS directive
	CE marked
Power Supply:	
	IEEE 802.3af Power over Ethernet (Class 3 device)
	+18-24VDC @ 13W Class-III External Power Supply

AudiaEXPI-4 BLOCK DIAGRAM