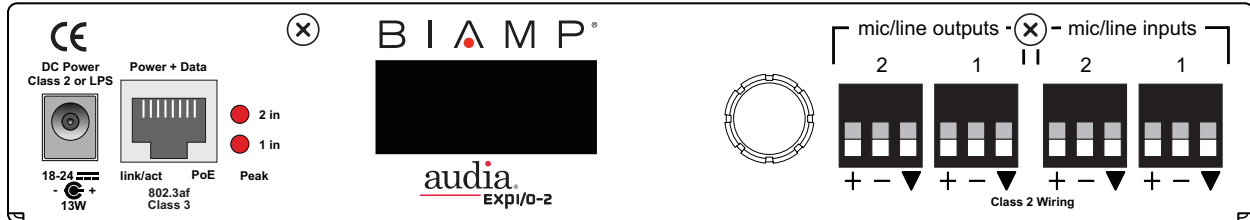




AudiaEXPI/O-2 Input/Output Mini-Expander



AudiaEXPI/O-2 is an input/output expander for Audia®, the benchmark in digital audio systems for demanding professional sound installations. AudiaEXPI/O-2 accepts two channels of digital audio input via CobraNet® and provides two line-level analog audio outputs, along with a mic pad for mic-level output, while simultaneously accepting two mic/line analog audio inputs and providing two channels of digital audio output via CobraNet®. AudiaEXPI/O-2 can simply add both inputs and outputs to a centralized system, or it can extend system boundaries by providing both inputs and outputs at remote locations. AudiaEXPI/O-2 is represented as a block in Audia software, for easy inclusion into any system design. AudiaEXPI/O-2 may also be used to provide inputs and outputs from other CobraNet compliant systems or devices.

FEATURES

- 2 mic/line analog inputs on plug-in barrier strips
- Front-panel input level controls and peak indicators
- 24-bit A/D converters with 48kHz sample rate
- 2 channels of digital audio output via CobraNet
- +48VDC Phantom Power for input (IEC1938 Compliant)
- 2 channels of digital audio input via CobraNet
- 24-bit D/A converters with 48kHz sample rate
- 2 line-level mic pad analog outputs on plug-in barrier strips
- Front-panel adjustable analog output level controls
- Powered by PoE (Power-over-Ethernet) or external DC source
- Rotary encoder with LCD for programming/setup
- Included as block in Audia system design software
- May be used with any CobraNet compliant system
- **RoHS** compliance and **AES** grounding practices
- **CE** marked
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The Input/Output Expander shall provide two mic/line analog audio inputs and two line-level mic pad analog audio outputs on front-panel plug-in barrier strip connectors. A front-panel level control and peak indicators shall be provided for adjustment of the analog audio input signals. A front-panel level control shall be provided for adjustment of the analog audio output signal. Internal analog-to-digital and digital-to-analog signal conversions shall be 24-bit, with a sample rate of 48kHz. The Input/Output Expander shall provide IEC 1938-compliant 48VDC Phantom Power on each input. Two channels of digital audio output and two channels of digital audio input 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 level setting, programming and setup. The Input/Output Expander shall be represented as a functional block within Audia® software, for easy inclusion into system designs. The Input/Output Expander shall also be capable of providing additional analog audio inputs and outputs to other CobraNet compliant systems or devices. The Input/Output 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/Output Expander shall be CE marked and shall incorporate AES48-2005 Grounding & EMC practices. The Input/Output Expander shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years. The Input/Output Expander shall be AudiaEXPI/O-2.

AudiaEXPI/O-2 SPECIFICATIONS

Frequency Response (20Hz-20kHz @ -20dBFS):	+0/-0.4dB	Input Gain Range (variable in 6dB steps):	0 - 66dB
THD+N (20Hz-20kHz @ -20dBFS):		Output Gain Range (variable in 6dB steps):	-24 - 0dB, -55dB Mic Pad
Line Level	< 0.0065%	D/A Converters:	24-bit (48kHz sampling)
Mic Level	< 0.045%	A/D Converters:	24-bit (48kHz sampling)
Equivalent Input Noise:	-125dBu	Dimensions:	
Dynamic Range:		height	1.5 inches (38mm)
Input	>107dB	width	8.5 inches (216mm)
Output	>110dB	depth	6 inches (152mm)
Crosstalk (channel-to-channel @ 1kHz):		Weight:	3 lbs. (1.36kg)
Line Level	< -90dB	Compliance:	AES48-2005 Grounding & EMC practices IEC 1398 Phantom Power IEEE 803.3af PoE EU Directive 2002/95/EC, RoHS directive CE marked
Mic Level	< -80dB	Power Consumption:	< 13W
Output Impedance (balanced):	200 ohms	Power Supply:	IEEE 802.3af Power over Ethernet (Class 3 device) +18-24VDC @ 13W Class-III External Power Supply
Input Impedance (balanced):	6.6k ohms		
Maximum Output (balanced):	+23dBu		
Maximum Input (mic/line):	+23dBu		
Phantom Power:	+48V @ 10mA per input		

AudiaEXPI/O-2 BLOCK DIAGRAM

