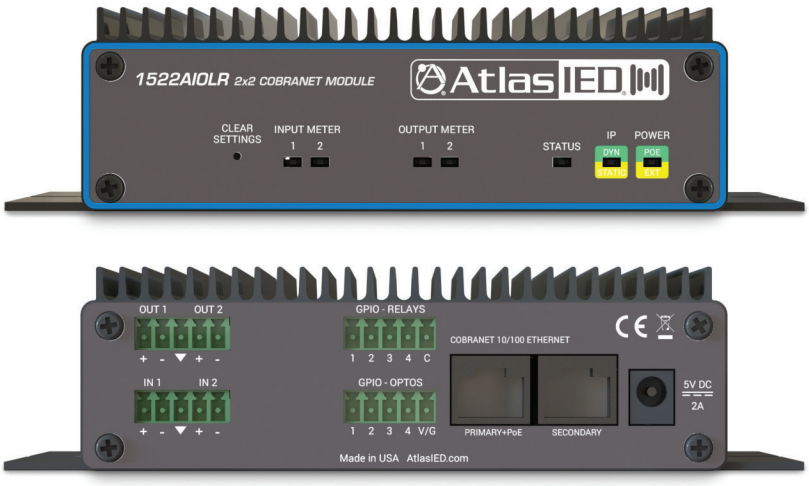
1522AIOLR

2x2 CorbaNet Audio I/O Module with Logic Inputs and Relay Outputs



Features

- Two Balanced Analog Mic / Line Inputs
- Software Adjustable, Non-volatile, Input Levels from –50 to + 24dBu
- -90dB THD+N
- Software Selectable 48V Phantom Power Individually Available On All Inputs
- Two Balanced Analog Line Outputs
- Software Adjustable, Non-volatile Output Levels from -10 to + 24dBu
- Four Opto-isolated Inputs
- Four Normally Open Relay Isolated Outputs
- Redundant CobraNet
- Separate CobraNet Channels Used for In and Out
- Programmable Delay Up to 10 Seconds on Each Audio Output
- 5 Band Parametric Equalizer Bands (High-Pass, Low-Pass, Peaking, Notch)
- Compander / Limiter On Each Input
- Level Control
- Power Over Ethernet (PoE) 802.3af Compliant on Primary Ethernet Connection
- Can be eExternally Powered From + 5V Supply if PoE Not Available (Order Separately)

General Description

The 1522AIOLR 2x2 CobraNet Audio I/O Module is a CobraNet interface for use in the professionally installed sound market. The 1522AIOLR receives CobraNet network audio and sends them to two balanced analog audio outputs while simultaneously inputting two channels of mic / line level balanced audio and transmitting them as CobraNet network audio. The 1522AIOLR is perfect for applications requiring additional inputs or outputs to an existing CobraNet system.

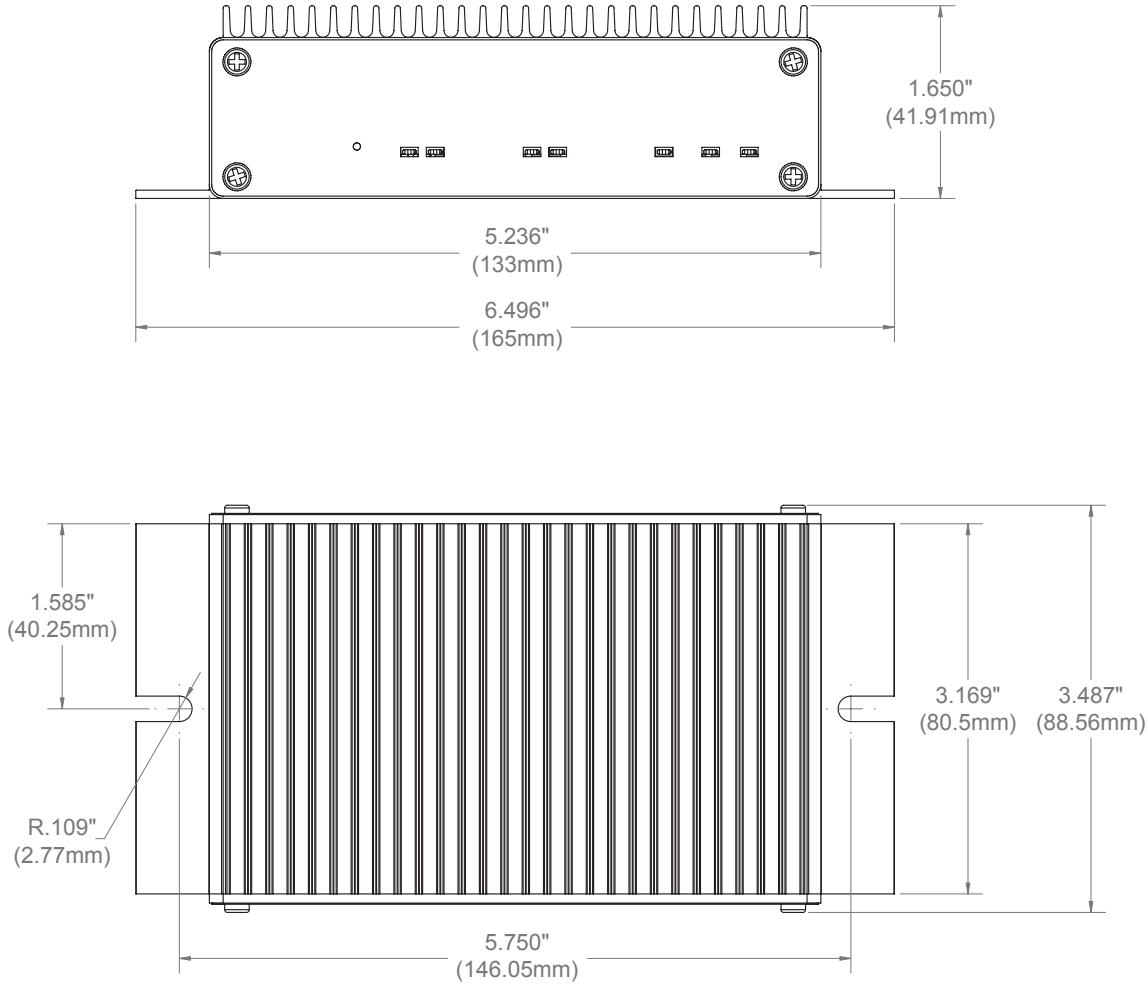
System	
Type	2x2 CobraNet Audio I/O Module
CobraNet Input / Output	
Type	Dual Redundant 100BaseT Ethernet
Connector	RJ-45, Qty 2
Precision	16, 20 or 24bit PCM
Sample Rate	48kHz
Latency	1.33, 2.66 or 5.33ms
Control Protocol	SNMP and HPI
Mic / Line Input	
Type	Balanced
Connector	Terminal Block
Input Level	-50 to +24dBu in 1dB Increments
Input Impedance	5KΩ Balanced
Phantom Power	48V @ 5mA Max per Input, Software Selectable On Each Input; On and Off
Dynamic Range (Note 1)	>100dB
THD+N (Note 2)	< -90dB
A/D Converter	24bit Over Sampling
Sample Rate	48kHz
Frequency Response	20Hz to 20kHz +/-3dB
Analog Output	
Type	Balanced
Connector	Terminal Block
Output Level	-10 to +24dBu in 1dBu Steps
Load Impedance	-10 to +14dBu: 600 Ohms or Greater; 15dBu to +24dBu: 2k Ohms or Greater
Dynamic Range (Note 1)	>100dB
THD+N (Note 2)	< -88dB
Sample Rate	48kHz
Frequency Response	20Hz to 20kHz +/-3dB
GP Opto-Isolated Inputs	
Isolation	2000VRMS
Input Drive	4mA Typical with Internal 5V Supply and Internal 1K Current Limiting Resistor
GP Relay Outputs	
Isolation	1500VRMS Between Relay Contacts and Coil
Contact Rating	Up to 220VDC / 250VAC and 2A, 60W Maximum
Indicators	
Power LED	Multi-color LED on Front
Input Meter LED	Multi-color LED on Front, Qty 2
Output Meter LED	Multi-color LED on Front, Qty 2
Status LED	Multi-color LED on Front
IP Address LED	Multi-color LED on Front
Network Connection LED	Yellow LED on RJ-45 Connectors on Rear
Network Data LED	Green LED on RJ-45 Connectors on Rear
Power Requirements	
PoE	IEEE 802.3af Power-over-Ethernet Class 0, Primary Ethernet Jack Only
Power Supply	External +5VDC @ 2A

Mechanical	
Dimensions (HxWxD)	1.9" x 6.5" x 3.125" (48mm x 165mm x 80mm)
Shipping Dimensions (HxWxD)	4.25" x 9.75" x 7" (108mm x 248mm x 178mm)
Unit Weight - lbs	1.5lb (0.68kg)
Shipping Weight - lbs	1.95lb (0.88kg)
Rack Mount Requirements	Rack-Mount Kit (IEDENC2305)
Environmental Specifications	
Operating Temperature Range	32°F to 113°F (0°C to 45°C) Ambient, Assuming Still Air.
Compliance	
Certifications	CE: EN55022, EN55024 Class A, FCC: Part 15 Subpart B Class A
Compliance	RoHS 2011 / 65 / EU

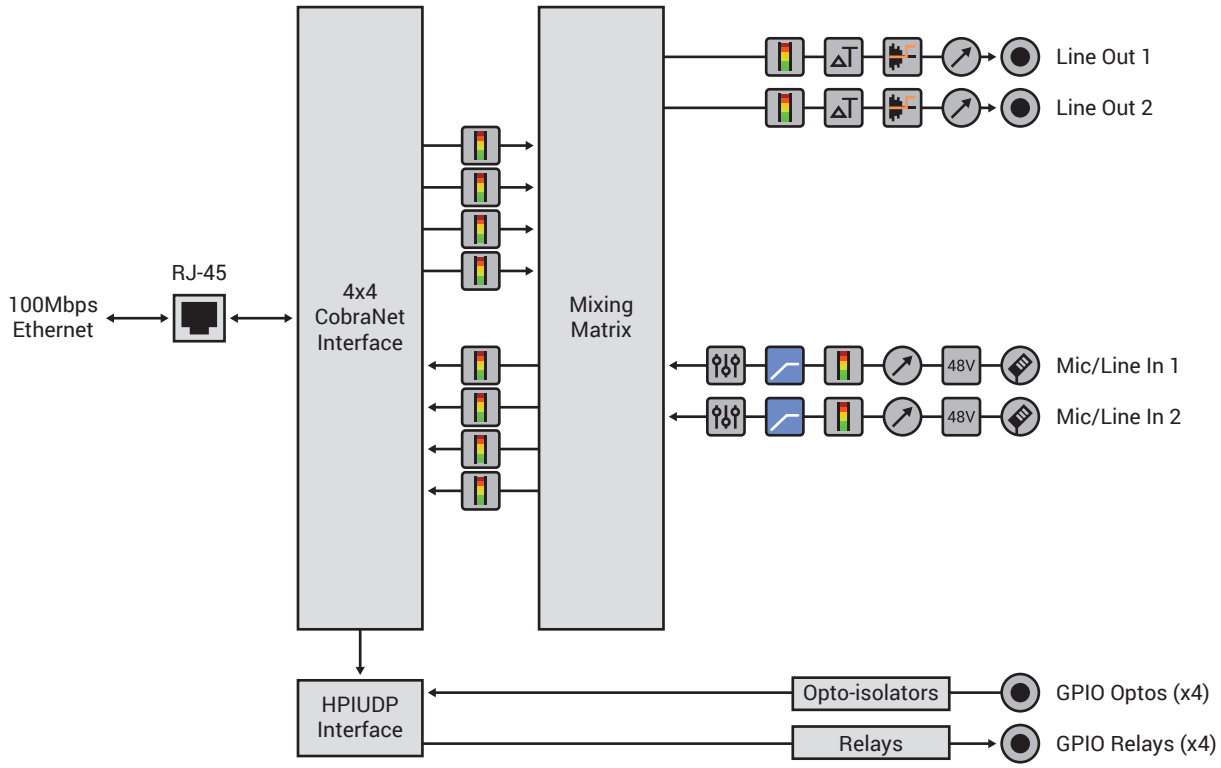
NOTES:

1. Dynamic range measured with a –60dBFs sine wave and A weighting filter and 20-20kHz b/w
2. THD+N measured using a + 20dBu 1kHz sine wave sampled at 48kHz, 20-20kHz b/w and A weighting filter

Dimensional Drawings



Block Diagram



Legend:

- Meter
- Time Delay
- Level
- Input / Output
- Mic Input
- 48V Phantom Power
- Compander
- EQ
- Silence Detector

Architect and Engineer Specifications

The CobraNet interface shall provide two microphone / line balanced analog audio inputs and two line level analog audio outputs on plug in terminal block connectors. 48V DC Phantom power shall be provided on each mic / line input. Analog-to-digital and digital-to-analog conversion shall be 24bit at a 48kHz sample rate.

The CobraNet interface shall provide front panel meters to monitor the analog input and output signals. Four channels of redundant CobraNet input and output shall be provided on an RJ-45 connector. The CobraNet interface shall be compatible with the GLOBALCOM.IP system.

The CobraNet interface shall be powered by IEEE 802.3af Power-over-Ethernet or from an external +5VDC @ 10W power supply. The CobraNet interface shall be compliant with CE, FCC part 15 and the RoHS directive.

Warranty shall be 3 years.

The CobraNet interface shall be the AtlasIED 1522AIOLR.