

# unAIO2x2+

## AES67 2IN/2OUT I/O INTERFACE

**Preliminary - Available Q3 2017**

The unAIO2x2+ I/O Interface is a 2in/2out, cost-effective way to add up to two channels (in and out) of analog audio to any AES67-based networked audio system. The unAIO2x2+'s small form factor and PoE power capability make it easy to put AES67 connectivity wherever it's needed - near the audio source or sink thereby eliminating costly and interference prone analog wiring. The unAIO2x2+ includes several features such as true +48V phantom power, maximum input and output levels of +20dBu, several input gain settings, and full output level control.



### FEATURES AND BENEFITS

- Small form factor, can be unobtrusively located near analog sources or sinks
- Dual power (DC or PoE) means the unAIO2x2+ will work in systems with either standard or PoE Ethernet switches
- Five input gains to accommodate common line levels, phantom powered and dynamic mics
- +48V phantom power per channel - powers virtually all types of phantom powered microphones typically used in installed AV systems
- Analog output gains software adjustable between 0dB and -60dB plus mute to accommodate all types of line input audio equipment—both consumer and pro levels
- Industry standard +20dBu maximum input levels (at 0dB input gain w/pad active) and +20dBu maximum output levels
- Full AES67 system status LEDs on the front panel
- AES67 is compatible with all QSC Core DSPs

### APPLICATIONS

- Addition of microphones or other sources where analog cabling would be expensive or is not available back to a central rack
- Network enable analog input power amplifiers or powered speakers
- Multi-point network audio distribution

### ABOUT ATTEROTECH

Atterotech is a leading provider of networked audio and connectivity interfaces. These innovative products make it cost effective for audio installations to include high performance connectivity. Atterotech is headquartered in Fort Wayne, Indiana USA - where all of our products are designed and built. Contact us at:

260.496.9668

[www.atterotech.com](http://www.atterotech.com)

## unAIO2x2+ Front and Rear Panels



### SPECIFICATIONS

- Mic/Line Input Type:** Balanced and RF filtered 3-pin depluggable
- Phantom Power:** +48V, software selectable
- Mic/Line Gain:** -12dB (pad active), 0dB, +15dB, +30dB, +45dB, software selectable
- Input Impedance:** >1.8K ohms at any gain setting
- Equivalent Input Noise:** -119dBu (+45dB gain)
- Maximum Input Levels:** +20dBu @ 0dB gain (with pad active), +8dBu @ 0dB, -7dBu @ +15dB gain, -22dBu @ +30dB gain, -37dBu @ +45dB gain
- Output Type:** Balanced line level with automatic muting on loss of AES67 signal
- Output Gain:** 0dB to -60dB plus mute, software selectable
- Output Noise:** <-85dBu @ 0dB gain
- Maximum Output Level:** +20dBu (@ 0dB output gain)
- System THD:** <.05% at any gain, input signal 3dB below maximum
- PoE Class:** Class 0 802.3af PoE PD compliant
- Certifications:** FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55022 Class A and EN55024 Class A)
- Dimensions:** 1.06”H x 6.45”W x 3.45”D
- Operating Temperature:** 0°C - 40°C

### ARCHITECTS & ENGINEERS SPECS

The AES67 Break Out Interface shall have two balanced mic/line analog inputs and two balanced line analog outputs. Each analog input shall be capable of driving an AES67 audio stream, and each analog output shall be capable of being driven from an AES67 audio stream.

Each input channel shall have +48V phantom power, selectable via software on a per channel basis. Each input channel shall have five gain levels: -12dB (pad active), 0dB, +15dB, +30dB and +45dB, selectable via software on a per channel basis.

Each output channel shall have adjustable gain between 0dB and -60dB plus mute in 1dB increments, selectable via software on a per channel basis.

All parameter changes will be non-volatile and self-restoring in the event of AC or PoE power interruption.

The unit shall accept either +24VDC or IEEE 802.3af standard PoE as power input. The unit shall be compliant with FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55022 Class A and EN55024 Class A), and RoHS requirements.

The unit shall be the Atterotech unAIO2x2+ I/O Interface