

Echo AIO-L2

Multichannel Acoustic Test Interface



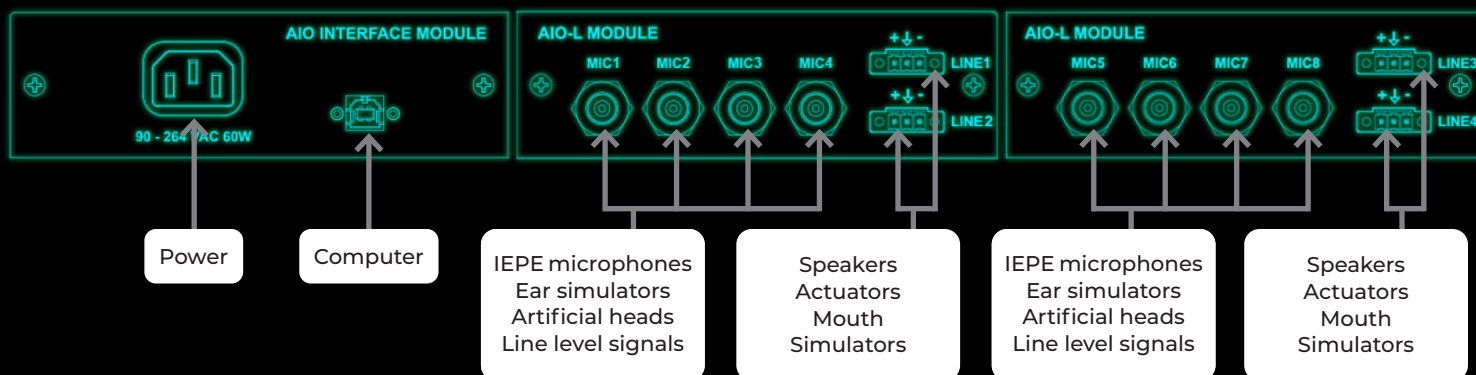
The **Echo AIO-L2** is a multichannel acoustic interface designed for production-line testing and QA/QC verification. Combining four balanced line-level/headphone outputs and eight mic/line analog inputs in a single unit, the AIO-L2 is an integrated, cost-effective, and reliable high-throughput audio test solution.

Each input can be individually configured as a line level input or as a measurement microphone input. Microphone inputs include an IEPE microphone conditioning amplifier with integrated constant current power supply (CCP). Line level outputs can also drive most headphones.

The AIO-L2 presents a standard USB audio sound card interface and is compatible with most audio test software including APx500 Flex, LabVIEW, SoundCheck, and ARTA.



Echo Test + Measurement
402 East Carrillo Street, Suite A
Santa Barbara, California 93101
USA
echotm.com
sales@echotm.com
805-880-5590



AIO-L2 SPECIFICATIONS

Microphone / Line Inputs

| | |
|-------------------------------------|-------------------------------|
| Input bandwidth | 72 kHz |
| Input impedance | 1 M Ω |
| Input gain | 1x, 10x, and 100x |
| Full-scale input voltage (1x gain) | 8.75 Vpk |
| Maximum input voltage | 15 Vpk (do not exceed) |
| Dynamic range (1x gain, A-weighted) | > 110 dB |
| THD+N (1x gain, A-weighted) | < -95 dB (20 Hz - 20 kHz) |
| Frequency response | ± 0.5 dB (20 Hz - 20 kHz) |
| Constant current supply | 4 mA, 21 V excitation voltage |
| TEDS | IEEE 1451.4 Class 1 |

Line Outputs

| | |
|----------------------------|-------------------------------|
| Output power (THD+N < .1%) | 32 mW continuous at 1 kHz |
| Minimum load | 32 Ω |
| Full-scale output voltage | 2.65 Vpk |
| Frequency response | ± 0.5 dB (20 Hz - 20 kHz) |
| Output bandwidth | 80 kHz |
| Dynamic range (A-weighted) | > 110 dB |
| THD+N (A-weighted) | < -94 dB (20 Hz - 20 kHz) |

Interface

| | |
|-----------------------------|---|
| Sample rates | 48 kHz, 96 kHz, and 192 kHz |
| USB | USB 2.0 audio class compliant |
| Supported operating systems | Windows 7 or later, macOS |
| Audio APIs | ASIO, WASAPI, CoreAudio |
| AC power | Universal power supply, 90 - 264 VAC at 50 or 60 Hz |

Dimensions and Weight

| | |
|-------------------------------|--|
| Single unit | 17.5" (44.4 cm) x 8.75" (22.2 cm) x 1.75" (4.4 cm), 7.2 lbs (3.3 kg) |
| Single unit boxed with cables | 21" (53 cm) x 10" (25.4 cm) x 5" (12.7 cm), 8.75 lbs (4 kg) |
| Shipping carton (4 AIOs) | 22" (55.8 cm) x 22" (55.8 cm) x 12.6" (32 cm), 42.5 lbs (19.3 kg) |