

Echo AIO-LT

Combination Line-level and Digital Test Interface



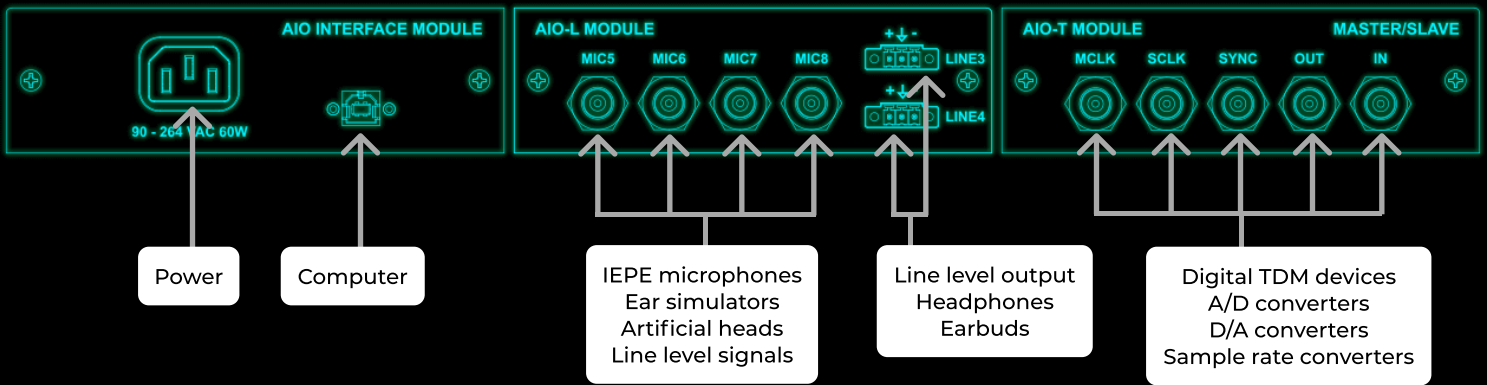
The **Echo AIO-LT** is a combination acoustic and digital test interface built for production-line testing and QA/QC verification. Combining two balanced line-level/headphone outputs, four mic/line analog inputs, and a 10-channel full duplex TDM bus in a single unit, the AIO-LT is an integrated, cost-effective, and reliable high-throughput audio test solution.

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



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AIO-LT SPECIFICATIONS

Mic / Line Inputs

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%)	10 W continuous at 1 kHz
Maximum output voltage	13.5 Vpk
Frequency response	± 0.5 dB 20 Hz – 20 kHz
Minimum Load	32 Ohms

TDM

Input channels	10
Output channels	10
Clock source	Internal or external clock sync
Bits per frame	256
Bits per sample	24 bits or 32 bits
Frame sync width	1-128 bits
Frame sync position	Bit 0-255

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 (6 AIOs)	22" (55.8 cm) x 22" (55.8 cm) x 17" (43.1 cm), 59.5 lbs (27 kg)