DSP-AEC-1410

AUDIO DSP WITH AEC,
12-IN/8-OUT ANALOG AND USB

The DSP-AEC-1410 is an audio signal processing unit with 12 analog inputs, 8 analog outputs as well as a 2x2 USB Audio interface for computers.
The unit is configured and controlled from a Windows application that presents an easy-to-use GUI with modular processing objects arrangement. Powerful processing with eq, dynamics, ducker, mixer, matrix and camera tracking combined with advanced acoustic echo cancellation (AEC) makes this unit suitable for a wide range of use cases. For critical applications the unit supports redundancy mode.

Analog audio inputs support both microphone and line level sources. Phantom power is selectable individually for each channel.
USB connection to host computer works as a sound card for easy computer audio connectivity for conference calls, playback and recording.

DSP-AEC-1410 (FRONT)

DSP-AEC-1410 (BACK)

KEY FEATURES

• 12x8 analog inputs and outputs
• 2x2 USB channels with processing for computer audio playback and recording
• Powerful DSP processing with matrix and mixer
• AEC (Acoustic Echo Cancellation)
• Ducker and AFS (Adaptive Feedback Suppression)
• Camera tracking feature
• Easy to use GUI with configurable processing modules layout
• 16 user configurable presets for easy recall
• Device snapshot export and mass import
• Light or dark theme selections
• Admin and user account support
• Redundancy mode for critical applications
• Open API for external control via ethernet (UDP) or RS-232/485
• External control from custom software or 3rd party control systems

TiGHT POLICY

5 YEAR LIMITED WARRANTY **+ 6 MONTH** ADVANCE REPLACEMENT

Faulty product - minimal down time.
Up until six months after purchase, TiGHT AV will replace your product in advance of return of faulty product.

Your investment - built to last.
All TiGHT AV products come with a five year limited warranty.

SPECIFICATIONS

DSP PROCESSOR

Type:	ADI SHARC 21489
DSP Handling Capacity:	400 MIPS, 1,6 GFLOPS

INPUT

Inputs:	(12) Analog Mic/line Audio
Input Connector:	(3) 12-pin Green Terminal Blocks
Phantom Power:	48V (Max 10mA), selectable per input

OUTPUT

Outputs:	(8) Analog Line Audio
Output Connector:	(2) 12-pin Yellow Terminal Blocks

INTERFACE

Ethernet:	(1) LAN, 10/100/1000 Base-T Ethernet
Ethernet Connector:	(2) RJ45
USB:	(1) USB 2.0, Type B
Serial:	(1) RS-232, (1) RS-485
Serial Connector:	(1) 6-pin Brown Terminal Blocks
GPIO:	(8) GPIO
GPIO Connector:	(2) 12-pin Blue Terminal Blocks

AUDIO PERFORMANCE

Input Gain:	0 - 48 dB in 3 dB steps
Frequency Response:	±0.2dB (20Hz~20KHz)
Maximum Level:	+18 dBu
THD + Noise:	0.003%@4dBu
Input Dynamic Range:	110 dB
Output Dynamic Range:	112 dB

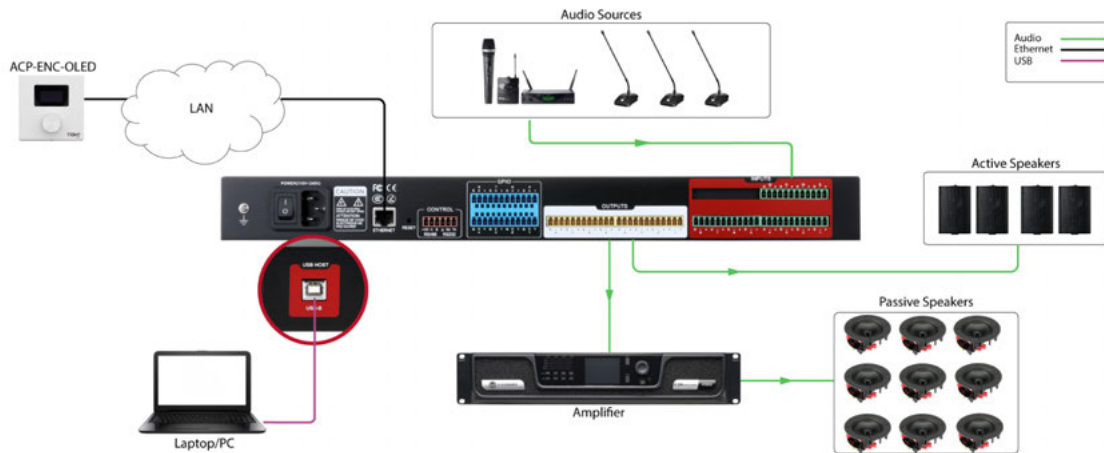|	
Background Noise (A-weighted):	-91 dB
Common Mode Rejection Ratio @60Hz:	80 dB
Channel Isolation @1KHz:	108 dB
Input Impedance (Balanced):	9.4 kΩ
Output Impedance (Balanced):	102 Ω
System Latency:	< 3ms
Sample Rate:	48 kHz
Bit Depth:	24 Bit

GENERAL

Power requirements:	AC 110~240V 50 Hz-60 Hz
Maximum Power Consumption:	< 40 W
Rack Space:	19" Rack (1 HE)
Dimensions with terminal blocks (W x D x H):	482 mm x 264 mm x 44 mm
Shipping Weight:	3 kg
Operating Temperature:	0 ~ +40°C
Storage Temperature:	-25 ~ +70°C
Relative Humidity:	10% - 90%

COMPLIANCE

Compliance:	FCC, CE
Environmental Compliance:	RoHS, REACH, WEEE

PACKAGE LIST

• 7 x 12-pin and 1 x 6-pin Terminal Block connectors • 1 x 1,5m USB 2.0 cable (Type A to Type B)	• 1 x EU AC power cable • 1 x UK AC power cable • 1 x Screwdriver • 4 x Rubber Feet

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