DSP-AEC-0606

AUDIO DSP WITH AEC,
4-IN/4-OUT ANALOG AND USB

The DSP-AEC-0606 is an audio signal processing unit with 4 analog inputs, 4 analog outputs as well as a 2x2 USB Audio interface for computers.
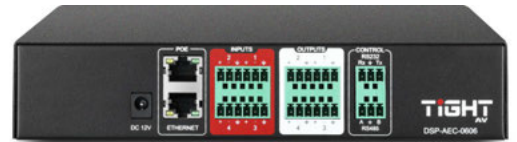The unit is configured and controlled from a Windows application that presents an easy-to-use GUI. Powerful processing with eq, dynamics, mixer and matrix combined with advanced acoustic echo cancellation (AEC) makes this unit suitable for a wide range of use cases.

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-0606 (FRONT)

DSP-AEC-0606 (BACK)

KEY FEATURES

• 4x4 analog inputs and outputs
• 2x2 USB channels with processing for computer audio playback and recording
• Powerful DSP processing with matrix and mixer
• Advanced AEC (Acoustic Echo Cancellation)
• Easy to use GUI
• 16 user configurable presets for easy recall
• Device snapshot export and mass import
• Light or dark theme selections
• 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.

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SPECIFICATIONS

DSP PROCESSOR

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

INPUT

Inputs:	(4) Analog Mic/line Audio
Input Connector:	(2) 6-pin Green Terminal Blocks
Phantom Power:	48V (Max 10mA), selectable per input

OUTPUT

Outputs:	(4) Analog Line Audio
Output Connector:	(2) 6-pin Green Terminal Blocks

INTERFACE

Ethernet:	LAN, 10/100/1000 Base-T Ethernet
Ethernet Connector:	(2) RJ45
PoE:	802.3af
USB:	(1) USB 2.0, Type B
Serial:	(1) RS-232, (1) RS-485
Serial Connector:	(2) 3-pin Green Terminal Blocks

AUDIO PERFORMANCE

Input Gain:	0 - 48 dB in 6 dB steps
Frequency Response:	±0.5dB (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

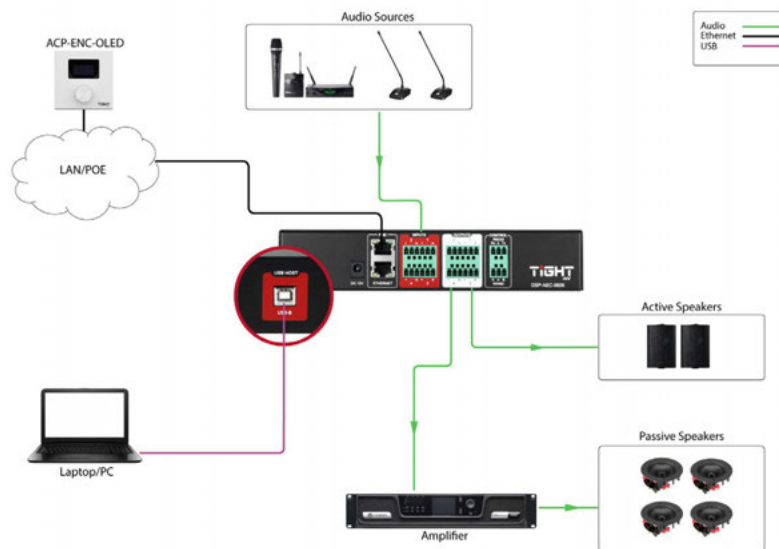|	
Channel Isolation @1KHz:	108 dB
Input Impedance (Balanced):	5.6 kΩ
Output Impedance (Balanced):	102 Ω
System Latency:	< 3ms
Sample Rate:	48 kHz
Bit Depth:	24 Bit

GENERAL

Power requirements:	PoE 802.3af or 12 VDC
Power adapter:	AC 110~240V 50 Hz-60 Hz, 12VDC / 2A output
Maximum Power Consumption:	10 W
Rack Space:	Half Rack
Dimensions with terminal blocks (W x D x H):	215 mm x 192 mm x 44 mm
Shipping Weight:	2kg
Operating Temperature:	0 ~ +40°C
Storage Temperature:	-25 ~ +70°C
Relative Humility:	10% - 90%

COMPLIANCE

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

PACKAGE LIST

- 2 x Mounting Brackets for surface mounting
- 2 x Mounting Brackets for 19" rack mounting
- 6 x Mounting screws
- 4 x 6-pin and 2 x 3-pin Terminal Block
- 1 x 1,5m USB 2.0 cable (Type A to Type B)
- 1 x EU/UK power supply
- 1 x Screwdriver
- 4 x Rubber Feet

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