

Audio 8 Board

The PACOM Audio 8 Board offers a complete audio solution for your needs; with the use of the Audio 8 Board and optionally an Audio 8 Sensor Expander Board, connected to an S1000 Controller with an Audio Converter Expansion Card.

Each Audio 8 Board contains 8 audio detection circuits that allow connection of up to 8 analog microphones directly to the Audio 8 Board. With the optional Audio 8 Sensor Expander Board, an additional 8 analog microphones can be connected with the same 8 audio detection circuits in parallel with the 8 onboard audio sensors. Up to 8 Audio 8 Boards can be connected to the S1000 Controller at one time.

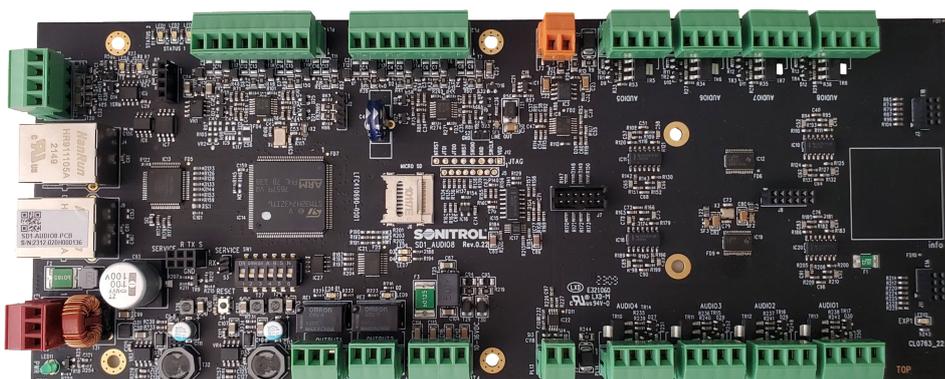
The Audio Converter Expansion Card is required, connected to the S1000 Controller, as it is the interface to the Audio 8 Board. The Audio Converter allows audio to be captured and communicated to PACOM VIGIL CORE. Encrypted data over IP network is supported.

The Audio 8 Board has been designed to process audio from several line level microphones. The pre-processing and analytics are done locally on the Audio 8 Board.

Audio 8 Sensor Expander Board



Audio 8 Board



TECHNICAL SPECIFICATIONS

Physical	
Dimensions	254mm x 102mm (10" x 4")
Weight	193g (6.8oz)
Environmental	
Operating temperature	-10°C (14°F) to 80°C (176°F) UL 294: -10°C (14°F) to 49°C (120.2°F)
Operating humidity	5% (0°C or 32°F) to 95% (40°C or 104°F)
Electrical	
Power consumption	180mA at 12VDC
Operating voltage	10 to 14VDC
Inputs	8 analog or digital inputs Fully configurable as either analog (0V to 12V) or digital monitored inputs Each monitored inputs can have a programmable EOL resistor (UL 294: 10K)
Outputs	2 relay NO/NC dry contact 0.5A at 120VAC (UL 294: NA)/ 1A at 24VDC, 2 O/C 0V to 24V at 250mA
Serial interfaces	
Serial ports	Used with 485 devices RS485 connection with 4 wires: EARTH, 485+, 485- and GND. Supports OSDP protocols as a peripheral device.
Communication	
Ethernet	1 primary Ethernet 2 port switch Standard RJ-45 Ethernet based connection Supports 10MB and 100MB connections
Audio bus	1x compatible audio bus supported
Microphones	16 analog audio microphone inputs <ul style="list-style-type: none"> • 1 to 8 analog audio inputs onboard • 9 to 16 analog audio inputs on the Audio 8 Sensor Expander Card (SE1-AUDIO8-PCB)
Speaker	10W output; 8Ω
Status LEDs	3 status LEDs to indicate: <ul style="list-style-type: none"> • CPU operational • device connected to host • device fault.
Audio bus cable	
Maximum length	200m (testing with longer length in progress)
Type	22 AWG shielded twisted pair

SUPPORTED

One of the following expansion cards can be added to the Audio 8 Board:

- 6 Output Expansion Card
- 8 Input 2 Output Expansion Card
- Card Reader Interface Expansion Card.

There is also a dedicated expansion slot on the Audio 8 Board for the Audio 8 Sensor Expander Board.

ORDERING INFORMATION

PART NO.	TYPE CODE	DESCRIPTION
320 200 109	SD1-AUDIO8-PCB	Audio 8 Board
320 200 119	SE1-AUDIO8-PCB	Audio 8 Sensor Expander Board
320 200 117	SE1-AUDIO-PCB	Audio Converter Expansion Card