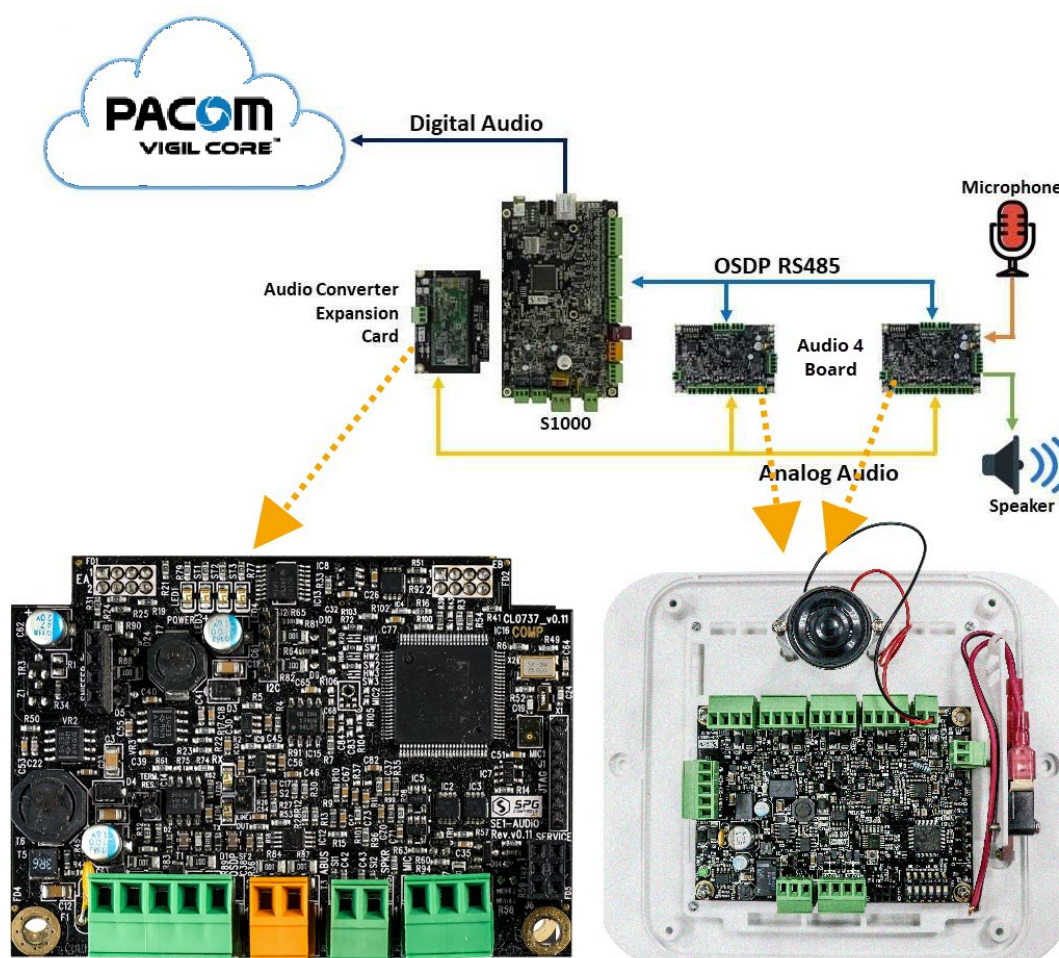


Audio Module

The PACOM Audio Module offers a complete audio solution for your needs; with the use of the Audio 4 Board and the Audio Converter Expansion Card.

The Audio 4 Board is connected via the encrypted OSDP bus to the S1000 Controller. Each board allows connection of up to 4 analog microphones and 1 speaker. Interfacing with the Audio Converter Expansion Card, digital audio can be captured and communicated to PACOM VIGIL CORE. Multiple Audio 4 Boards can be added to the S1000 Controller, allowing up to a maximum of 64 audio devices to be connected on each controller.

The Audio Converter Expansion Card is the interface to the Audio 4 Board. The Audio Converter allows digital audio to be captured and communicated to PACOM VIGIL CORE. The Audio Converter Expansion Card can also function as a standalone module with its built-in digital microphone, amplified microphone input and speaker output.



FEATURES

- Encrypted VOIP data over IP network
- Optional local audio capture to SD card
- Speaker and microphone support
- Digital audio converter
- Automatically detected by the S1000
- Audio announcements of up to 8 pre-recorded sound files (requires a micro SD - maximum 32GB - card to be installed on the S1000 Controller)

TECHNICAL SPECIFICATIONS

AUDIO 4 BOARD		AUDIO CONVERTER EXPANSION CARD
Physical		
Dimensions	100mm x 70mm (3.9" x 2.8")	80mm x 56mm (3.1" x 2.2")
Weight	50g (1.8oz)	
Environmental		
Operating temperature	-10°C (14°F) to 70°C (158°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	Idle 15mA at 12VDC Peak 500mA at 12VDC with maximum speaker power	Idle 15mA at 12VDC Peak 200mA at 12VDC
	UL 294: 518mA at 12VDC input with full load	
Inputs	2 analog or digital multi EOL monitored (UL 294: 10K)	
Outputs	1 relay NO/NC 1A at 24VDC	
Data		
Encryption	Supports SSL/TLS 1.2 audio encryption	
Compression	NA	14bits uLaw
Microphone and speakers		
Microphones	4 analog Electret condenser microphone inputs 120 dB SPL AOP, 61 dB SNR, -26 dBFS sensitivity	Onboard omni-directional digital MEMs microphone 120 dB SPL AOP, 61 dB SNR, -26 dBFS sensitivity
Line level microphone input	NA	Maximum -10dBV signal
Speaker amplifier	10W output (8Ω, THD+N = 10%)	2.5W output at 10% THD with a 4Ω load

TECHNICAL SPECIFICATIONS - CONTINUED

Audio bus cable	
Maximum length	Currently tested up to 200m (further testing in progress)
Type	22 AWG shielded twisted pair

COMPLIANCE

RoHS, RCM, FCC, CE, UL 294

ORDERING INFORMATION

PART NO.	TYPE CODE	DESCRIPTION
320 200 019	SD1-AUDIO4-KIT	Audio Module with Audio Converter Expansion Card and Audio 4 Board and one speaker in a plastic enclosure with tamper switch.
320 200 107	SD1-AUDIO4-PCB	Audio 4 Board PCB only
320 200 108	SD1-AUDIO4-PENC	Audio 4 Board PCB and one speaker in a plastic enclosure with tamper switch.
320 200 117	SE1-AUDIO-PCB	Audio Converter Expansion Card