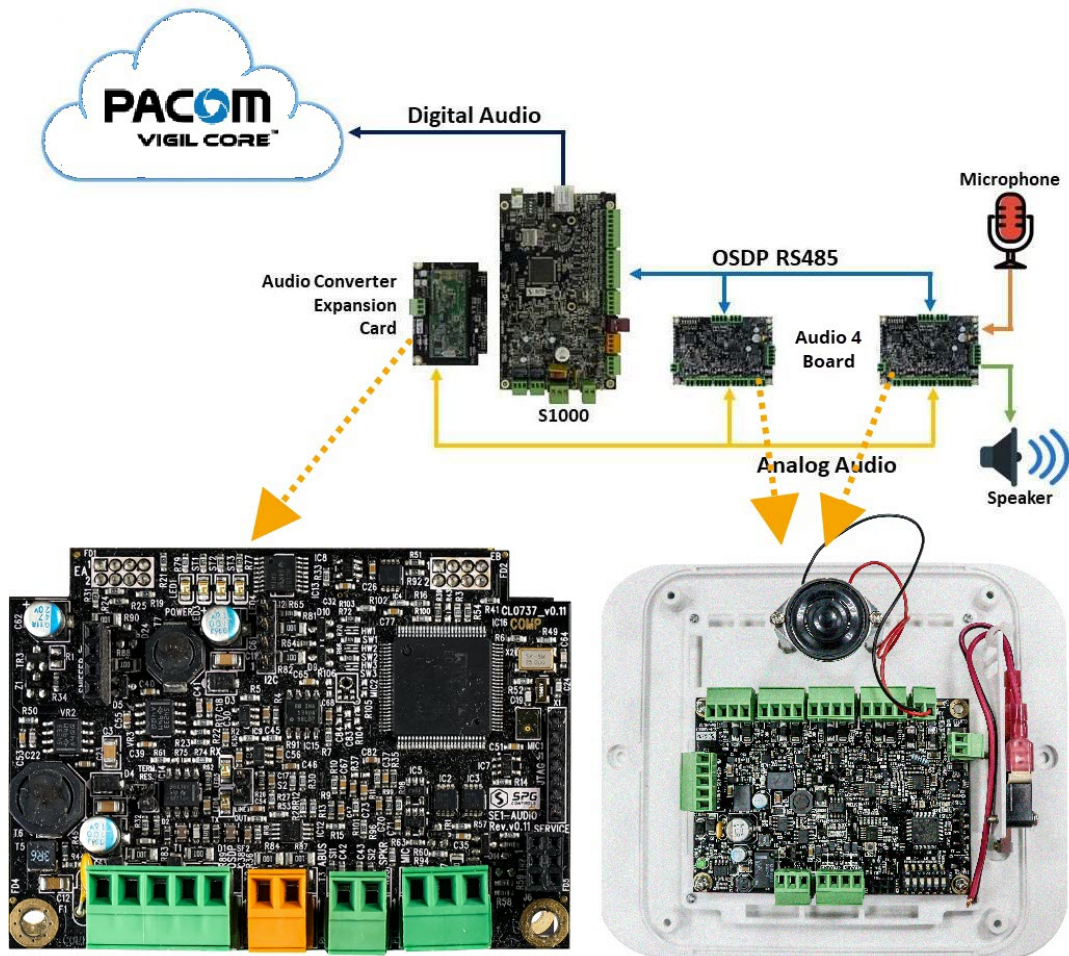


## Audio Module

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
- 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
<b>Physical</b>		
Dimensions	100mm x 70mm (3.9" x 2.8")	80mm x 56mm (3.1" x 2.2")
Weight	50g (1.8oz)	
<b>Environmental</b>		
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)	
<b>Electrical</b>		
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	
<b>Data</b>		
Encryption	Supports SSL/TLS 1.2 audio encryption	
Compression	NA	14bits uLaw
<b>Microphone and speakers</b>		
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

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