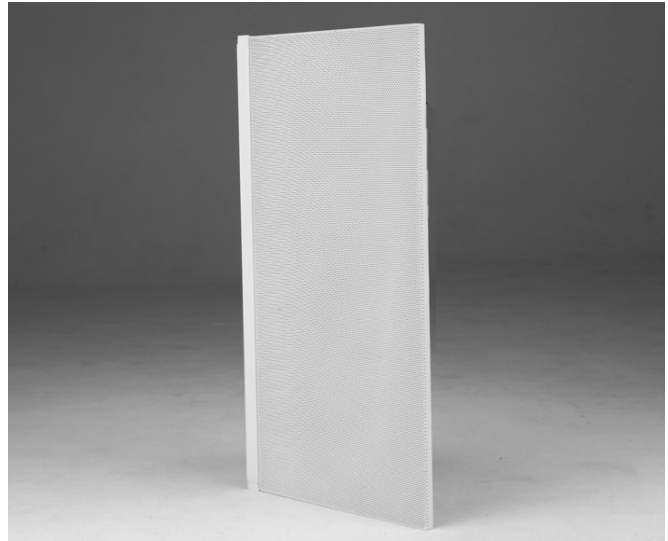


The LIS-IP is a full SIP, PoE speaker that is economical and easy to deploy. Designed with the edge support that lines up with the tile, the LIS-IP provides a clean look and is easy to install.

The LIS-IP is a one-way or two-way speaker (two-way is designated by “-M” extension when ordered) that is ideal for both paging applications and intercom functionality. In addition to a high sensitivity microphone providing unmatched talk-back quality, the LIS-IP includes a variety of features that convert it from a simple IP speaker into a flexible tool.



As standard features, the LIS-IP includes:

- 3 Programmable Logic Control Inputs
- 1 Programmable Output Relay
- Microphone Input, Full-Duplex Hands Free Communication
- Ability To Receive and Switch Between 8 IGMP Audio Streams
- SIP Protocol For Direct Use With VoIP Systems
- Internal HTML Browser-based Programming For Easy Access and Configuration
- Full DSP For Superior Audio Quality and Performance

The logic control inputs on the LIS-IP speaker can be programmed to initiate intercom calls, activate relay contacts anywhere in the system, initiate system functions such as volume control, source selection, and control other systems via 3rd party commands. The on-board output relay can be controlled by any input in the system, logic command, or 3rd party command from anywhere in the network.

The integral DSP (Digital Signal Processor) delivers full control of the audio environment providing the ability to control the sound floor, maximizing performance and enhancing the audio experience.

The LIS-IP speaker is the most flexible and dynamic PoE lay-in tile speaker on the market and provides features and functionality that is unmatched in the IP speaker market.

**LIS-IP****POE LAY-IN TILE SPEAKER****TERRACOM™**

SPECIFICATIONS

ELECTRICAL

Power over Ethernet (POE+), IEEE802.3af,
24 VDC power transformer(18~24VDC), minimum power supply: 2A

AUDIO CHARACTERISTICS

Audio Output		Mic Input (IP-M Models Only)	
Dispersion	100° @2kHz (6 dB Down)	Phantom power	2 VDC
Frequency response	±6 dB @ 60 Hz ~ 20 kHz	Frequency response	±1 dB @ 50 Hz~20 kHz
SPL @ 1w @ 1m	95dB	Input impedance (unbalanced)	1K ohm
THD+N@20W/40W	1 %(50 ~ 20 kHz@ full power)	EIN (Equivalent Input Noise)	-90dBu @ 14dBu gain
SNR	85dBu @ 50 Hz~20 kHz @ 4K	THD+N	0.1 %(50~20 kHz @ 14 dBu gain)

CONTROL INPUT

Type	Euro-block
Mode (analog/TTL)	max. 3.3 VDC
TTL logic input (max.)	HIGH active 3.3 VDC, LOW active 1.2 VDC

CONTACT OUTPUT

Type	Euro-block
Default status	OPEN(N.O.)
Voltage	100 VDC(max.)
Current	0.5A(max.)

INTERCONNECTION

Female RJ45 socket, CAT-5/CAT-6 cables	
Max. cable length	100M

AUDIO

Audio Compression	G.711, G.722, Wav, MP3
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SUPPORTED PROTOCOLS

SIP 2.0(peer and proxy)
IETF SIP(RFC3261)
IETF IGMP version 2(RFC2236)
IETF RTP(RFC1889)

NETWORKING

10/100 Mbps Base TX Ethernet RJ45
Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup
Time and date synchronization using NTP

MECHANICAL & ENVIRONMENTAL

Dimensions (W x L x H)	12.84 x 23.73 x 4.53 inches
Net weight	9.62lbs (4.37 kg)
Operating temperature	23°F~131°F(-5°C~55°C)
Storage temperature	-40 °F~158 °F(-40 °C~70 °C)
Relative humidity	0 % to 70 %
Air pressure	600 to 1100 hPa
Heat dissipation	6.82 BTU/hr

ORDERING

LIS-IP	IP Lay-In Tile Speaker 1x2 One-Way
LIS-IP-M	IP Lay-In Tile Speaker 1x2 Two-Way



Made in USA