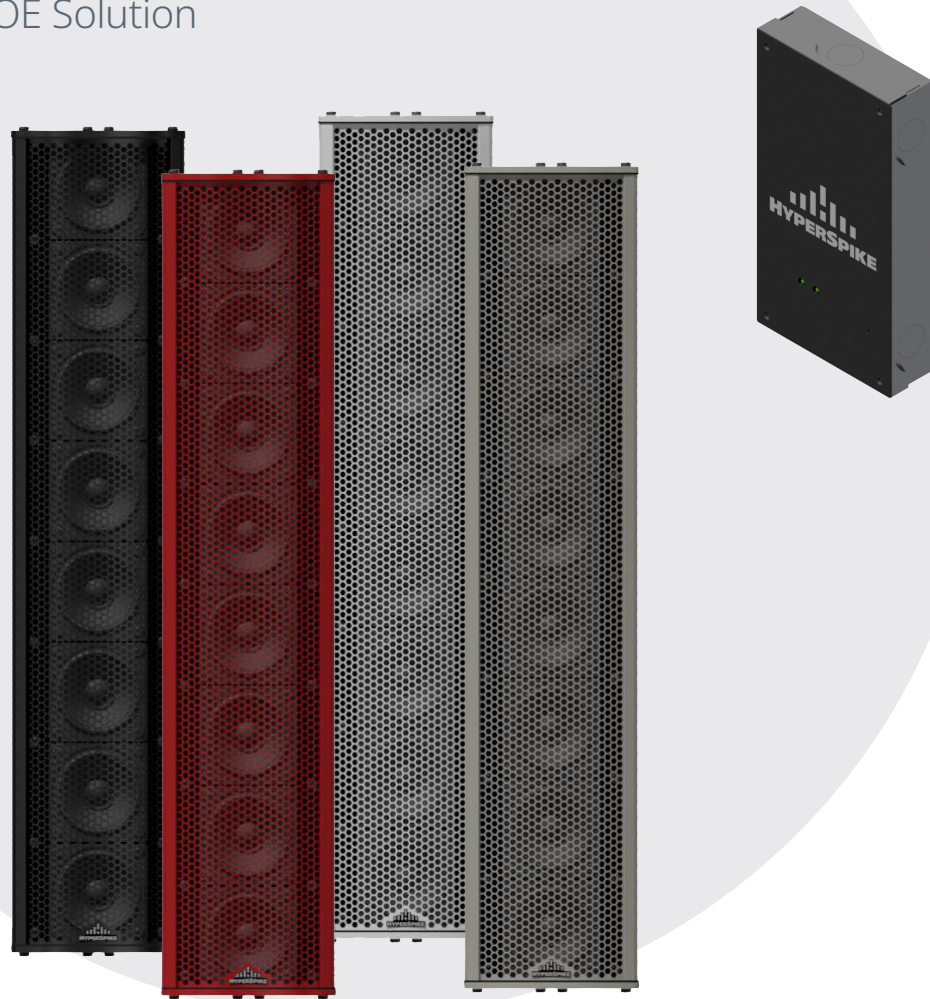# LineWave

IP Addressable / POE Solution

Key features

- Industry leading voice intelligibility
- Cuts through ambient noise
- Rated for indoor or outdoor applications
- POE+ and 24VDC powered (auto switching)
- 114dB max SPL @ 1m
- Durable environmental resistant construction
- Simple plug and play installation and setup
- Fully compatible with IP audio and emergency notification protocols
- Speaker available with UL1480 certification

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Overview

The HyperSpike® LineWave, known for its performance and best-in-class intelligibility in the Fire and Life Safety market, is now available with an IP-addressable, self-amplified system. Designed with the latest advancements in IP audio, HyperSpike® LineWave is optimized to operate off network power and produce clear, authoritative voice commands and powerful tones in challenging reverberant environments. The beam-forming capability of the LineWave speaker allows even more coverage across the listening plane whlie focusing the acoustic pattern away from surfaces that cause unwanted reflections. This technology is essential for achieving optimum levels of speech intelligibility and ensuring messages reach their intended audience. With the addition of IP-addressable amplification, the HyperSpike® LineWave can be easily applied to play background music, deliver live announcements via standard SIP protocols, and tie into a variety of number of different IP emergency notification system protocols.

Technical Specifications

Speaker Unit Specification		
Speaker Size	4X	8X
Nominal Speaker Impedance	8Ω	4Ω
Usable Range @ 70dB, A-weighted	32m (105ft)	49m (160ft)
dB SPL Max @ 1m	110	114
Input Sensitivity (2.83Vrms/1m)	91dB	97dB
Vertical Coverage -9dB (AVG 1kHz-4kHz)	45°	21°
Frequency Response (±6dB)	250Hz-15kHz	
Horizontal Coverage -9dB (AVG 1kHz-4kHz)	187°	
Color	Black, Red, White, Silk Grey	
Enclosure Material	Aluminum	
Grille Material	Steel	
Certification	UL1480 (Indoor and Outdoor Damp Applications)	
Production Dimensions (in) H x W x D	12.3 x 4.9 x 2.9	23.7 x 4.9 x 2.9
Speaker Weight (lbs)	4.3	7.5
Power Over Ethernet Amplifier Module Specifications		
Power Supply	PoE (802.3af) / PoE+ (802.3at) / 4PPoE (802.3bt) / 24VDC 2.5A	
Ethernet Interface	RJ45 100/1000 Mbit Auto Detect (IPv4 and IPv6 Capable)	
Network Configuration	Automatic IP Configuration on Open Networks	
User Interface	Graphical User Interface for Setup and Control	
Digital Audio Formats	MP3 CBR/VBR, Up to 320kbps, 8.48kHz Sample Frequency AAC-HE (AAC, AAC plus, AAC plus V2) PCM Linear 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz G.711 / G.722 / GSM / Opus	
Emergency Notification Compatibility	Stored Message Playback Auto Registration with Common ENS Platforms InformaCast, Syn-Apps, Other[*]	
Health and Status (Visual)	LED Status Lights — Physical Reset Button	
Security	HTTPS Secure Connection	
IP Addressing	DHCP / Static	
IP Module Dimensions (in) H x W x D & Weight (lbs)	8.8 x 4.7 x 1.6 < 2	
Internal Track Storage	1GB storage	
Temperature Range	0-50°C (Operating Conditions)	

[*] Contact HyperSpike® for more details.

Architect and Engineer Specifications

Voice paging and tone signaling loudspeaker shall be Ultra Electronics Model ____. Unit shall be network addressable and powered by POE+. The speaker shall be weather resistant and constructed of powder-coated aluminum and steel. The loudspeaker shall be able to operate within any ambient temperature environment ranging from -20°C to 60°C. The speaker shall have a sensitivity of ____ when measured at 1m (AVG 250-15,000Hz) and a horizontal beam width of 187° (AVG 1kHz to 4kHz). Frequency response shall be 250Hz-15kHz. Speaker dimensions shall be ___"H x 4.9"W x 2.9"D.

Note: Please see Models and Technical Specifications to fill in the blanks for specific speaker selection.

Ordering Information

System Part Numbers		
Speaker with POE+ Module	90269A-801-XX	90269A-802-XX
Speaker Size	4X	8X
Color	01-Black, 05-Red, 06-White, 07-Silk Grey	
Optional 24V AC/DC Converter	42364A-801	

Power and SPL Specifications

Model	Input Power	Max Power Draw (W) [1]	Typical Power Draw (W) [2]	SPL Max @ 1m
LineWave 4X	PoE	14.9	7.0	102
	PoE+	31.2	11.2	106
	4PPoE (Type 3)	46.7	14.9	109
	4PPoE (Type 4)	46.7	14.9	109
	External 24V	–	–	109
LineWave 8X	PoE	15.5	7.1	105
	PoE+	31.2	11.4	109
	4PPoE (Type 3)	53.2	15.4	111
	4PPoE (Type 4)	53.2	15.4	111
	External 24V	–	–	111

Note 1: Maximum power draw with continuous, full-power tone.
Note 2: Typical power draw using voice at full volume.

Connection and Wiring

LineWave IP models come with an IP-addressable, self-powered amplifier module that can be mounted in a remote, hidden location and tied directly to the 6ft speaker cable provided with the LineWave. Simply wire the speaker cable to the IP module as defined in the manual and connect the RJ45 cable to the module to complete installation. The addition of a 24V power supply will allow the units to have redundant power sources and allow for additional output SPL and auto switching in the event of a power failure.

Ultra **HyperSpike®**
260-248-3666
ultra-hyperspike.com
ultra.group

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