



TCPA-10

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)
- 131dB max SPL @ 1m
- Durable environmental resistant construction
- Simply plug and play installation and setup
- Fully compatible with IP audio and emergency notification protocols
- Speaker available with UL1480 certifications

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Overview

The HyperSpike® TCPA-10, known for its ability to cut through high-ambient environments with clear and authoritative tone and voice notification, is now available with an IP-addressable, self-amplified system. Designed with the latest advancements in IP audio, the IP-addressable TCPA-10 is optimized to operate off network power and produce clear, authoritative voice commands when plugged into standard IP audio streaming and ENS systems. 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. Best-in-industry voice quality and intelligibility, combined with market-proven IP-addressable technology, make the TCPA-10 the right choice for ensuring messages are heard and understood.



Technical Specifications

Speaker Unit Specification	
Nominal Speaker Impedance	8Ω
Usable Range @ 80dB, A-weighted	380m (1246ft)
dB SPL Max @ 1m	131
Input Sensitivity (2.83Vrms/1m)	112dB
Vertical Coverage -9dB (AVG 1kHz-4kHz)	120°
Frequency Response (±6dB)	400Hz-15kHz
Horizontal Coverage -9dB (AVG 1kHz-4kHz)	120°
Color	Black, Grey, Red, White
Enclosure Material	Flame Resistant Composite
Grille Material	Steel
Certification	UL1480 (Indoor and Outdoor Applications)
Production Dimensions (in) H x W x D	10.1 x 10.1 x 11.3
Speaker Weight (lbs)	9.0
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 UL listed, weather resistant, and constructed of rugged 5VA rated, UV resistant ABS plastic. The loudspeaker shall be able to operate within any ambient temperature environment ranging from -40°C to 60°C. The speaker shall have a sensitivity of 112dB when measured at 1m (AVG 400-4,000Hz) and a beam width of 90° (-6dB at 1kHz). Model shall be a non-re-entrant compression loaded transducer with a 3" polyimide diaphragm and power handling of 40W continuous. Frequency response shall be 375Hz-15kHz. Dimensions shall be 10.1"H x 10.1"W x 11.3"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	90271A-801-XX
Color Options (Speaker Only)	01-Black, 04-Gray, 05-Red, 06-White
Optional 24V AC/DC Converter	42364A-1

Power and SPL Specifications

Model	Input Power	Max Power Draw (W) ¹	Typical Power Draw (W) ²	SPL Max @ 1m
TCPA-10 (8Ω)	PoE	10.8	5.2	123
	PoE+	22.0	8.2	128
	4PPoE (Type 3)	34.5	13.0	130
	4PPoE (Type 4)	34.5	13.0	130
	External 24V	-	-	130

Note 1: Maximum power draw with continuous, full-power tone.

Note 2: Typical power draw using voice at full volume.

Connection and Wiring

TCPA-10 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 TCPA-10. 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.



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90271A-SS-TCPA10IP Rev B
 Approved for public release