8196 IP POE+ HORN SPEAKER

Reduce costs and simplify horn speaker deployments with satellite speaker technology

The Algo 8196 IP PoE+ Horn Speaker adds flexibility to your paging system deployments with the option to be used as a homerun IP speaker or in combination with satellite speakers. Up to three satellite speakers can be connected to the 8196 to reduce cabling, ports, and licensing costs while adding ease to the installation process.

EXPAND AUDIO COVERAGE AT REDUCED COSTS

Using the Algo 8196 IP PoE+ Horn Speaker with Algo 1196 Satellite Horn Speakers is a cost-efficient way to connect and supervise multiple speakers while reducing required network ports and cable drops. Since only one network drop is required, you can reduce labor costs.

POWER AND SUPERVISE UP TO 3 SATELLITE SPEAKERS

The Algo 8196 IP PoE+ Horn Speaker can be deployed as a homerun IP speaker or in combination with satellite speakers. Satellite speakers can be connected by ethernet patch cable up to 50 ft long in a daisy chain fashion. This deployment option is ideal for environments where speakers are clustered or back-to-back on a pillar. In this case, the 8196 host speaker will split 16 W of power equally between the connected satellite speakers and use its built-in features, such as ambient noise detection, to manage the connected satellite speakers.

SIMPLIFY SPEAKER INSTALLATION

Less cabling means faster installation. When satellite speakers are connected to the Algo 8196 IP PoE+ Horn Speaker, you can automatically detect the connection status of each satellite speaker and continuously monitor activity. Both the 8196 and 1196 are designed to IP66 standards and suitable for both indoor and outdoor locations when properly installed.

KEY FEATURES

- Satellite speaker technology; can power and supervise up to three Algo 1196 Satellite Horn Speakers
- IP66 and outdoor rated
- PoE+
- Secure SIP using TLS, mTLS, SRTP
- Multicast-capable
- Ambient noise detection
- Talkback capable
- Wideband (G.711 u-law, G.711 A-law, G.722 Wideband, Opus 48kHz)
- Configuration via user friendly web interface or auto-provisioning.
- Relay input compatible with Algo endpoint accessories

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8196 IP POE+ HORN SPEAKER

AUDIO OUTPUT	
DRIVER RESPONSE	350 – 8,300 Hz (- 10 dB)
MAXIMUM SPL	119 dB SPL (1KHz 16W/1m) when used alone with PoE+
MAXIMUM AUDIO POWER	16 W (shared equally between one 8196 and up to three connected 1196)
DISPERSION ANGLE	80° H x 50° V (2 kHz -6 dB)
SPEAKER MATERIAL	UV stabilized outdoor rated plastic with stainless steel mounting hardware

AUDIO MANAGEMENT	
AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband, Opus Fullband
AUDIO DELAY	Programmable 1-1000 ms synchronization delay
AUDIO MEMORY & FORMAT	1 GB audio storage for WAV or MP3 files
AUDIO CONTROLS	Volume, AGC, Latency, LF Cut
ANTI-FEEDBACK DELAY	Cache to memory and release
MICROPHONE	Omnidirectional - talkback and ambient noise monitoring
SATELLITE SPEAKER	Yes; up to three Algo 1196 Satellite Horn Speaker
SATELLITE SPEAKER CONNECTION	Patch cable 4 Pair UTP 24 AWG RJ45 plug terminated T568A or T568B "Straight-Through". Maximum recommended patch cable length 50 feet (13 m) between each speaker

POWER	
POWER SOURCE	PoE+ (IEEE 802.3at Type 2 Class 0) 48 V, 30 W
MAX POWER (AT DEVICE)	25.5 W
IDLE POWER	2.5 W

SIP	
SIP EXTENSIONS	• 50 Page (Capable of hands-free talkback) • 10 Emergency Alert • 10 Ring
SIP SIGNALLING/ TRANSPORT PROTOCOLS	UDP, TCP, RTP
SECURITY	TLS, SRTP, Mutual Authentication

CONNECTIONS & INTEGRATIONS	
RTP MULTICAST	Send and Receive 50 Zones
API	RESTful API
THIRD PARTY	Poly Group Page™ InformaCast® (additional license required) Intrado Revolution® Microsoft Teams®

CONFIGURATION & PROVISIONING	
CONFIGURATION	Web interface or provisioning server
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	TFTP, FTP, HTTP, HTTPS DHCP Options 66, 150, 160 Reboot via SIP 'check-sync'
ZTP	Supported
SUPERVISION	Compatible with Algo Device Management Platform (ADMP), Algo 8300 IP Controller, any third-party SNMP monitoring software, and RTCP

NETWORKING	
NETWORKING	IPv4, IPv6, DHCP, VLAN, MDNS
LINK LAYER	LLDP, CDP
SECURITY	IEEE 802.1X
QOS	DSCP
NAT	STUN, TURN, CRLF Keep Alive, SIP Outbound
ADDRESS RESOLUTION	DNS, SRV Record
REDUNDANCY	Secondary and tertiary SIP server
TIME	NTP Server (up to four)

INPUT/OUTPUT	
RELAY INPUT	Normally open or normally closed dry contact with supervision. Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, EOL termination.
RELAY OUTPUT	Max 30 V 50 mA (normally open)

RELAY INPUT CURRENT DRAW DETECTION THRESHOLD

	ACTIVE	IDLE	TAMPER
NORMALLY OPEN	> 4 mA	< 4 mA	N/A
NORMALLY OPEN WITH SUPERVISION	> 20 mA	4-20 mA	< 4 mA
NORMALLY CLOSED	< 4 mA	> 4 mA	N/A
NORMALLY CLOSED WITH SUPERVISION	4-20 mA	> 20 mA	< 4 mA
NOMINAL 12 V SOURCE, CURRENT LIMITED TO 40 MA	Typical supervision resistor value = 1 k Ohm		

MOUNTING	
ENVIRONMENT	-40 to + 50 deg C (-40 to + 122 deg F); suitable for outdoor and wet environments when properly installed. IP66 rating
SURFACE	Wall, ceiling, or double gang electrical box. Pole mount bracket available.
AIM ADJUSTMENT	Three axis

DIMENSIONS	
PRODUCT DIMENSIONS	11" x 6.6" x 10.5" (28 cm x 16.8 cm x 26.7 cm)
HORN MOUTH DIMENSIONS	11" x 6.6" (28 cm x 16.8 cm)
HORN & ENCLOSURE	UV stabilized outdoor rated plastic with stainless steel mounting hardware
WEIGHT (PRODUCT)	5.0 lbs (2.3 kg)
WEIGHT (SHIPPING)	6.5 lbs (2.9 kg)

COMPLIANCE

RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada)
RCM (Australia and New Zealand)

PATENT

FRONT

SIDE

BACK

ORDERING CODES:

8196 IP PoE+ Horn Speaker
8196-IC IP PoE+ Horn Speaker InformaCast

SATELLITE SPEAKERS

1196 Satellite Horn Speaker

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Note: Specifications are subject to change without notice. Some features may only be available in specific firmware or hardware releases.