



## Algo's Satellite Speaker Technology Offers the Benefits of IP Paging and Notification with Reduced Costs

The 8196 IP Horn Speaker is a SIP compliant and multicast capable PoE+ network audio device for public address and notification. For expanded coverage, up to three satellite speakers may be connected to the 8196 speaker sharing the 16W of available audio power.

In typical applications the 8196 is deployed with a single satellite speaker, connected via a standard patch cable. In this application only one network drop is required reducing installation time, labor costs, and licensing requirements. Each speaker generates 8W of audio power output. In applications where the required output is reduced, up to three satellite speakers can be connected to one IP speaker; providing greater cost savings. Satellite speakers are identical in performance to the 8196 IP Speaker.

Since an important benefit of IP based communication is the ability to supervise speakers for connectivity and

operational assurance, the 8196 IP speaker automatically detects each satellite speaker connected and continuously monitors the satellite speakers.

The 8196 is compatible with leading SIP based premise or hosted UC platforms, leading mass notification software platforms, Group Page and standard RTP multicast.

The 8196 and 1196 are designed to IP66 standards and suitable for both indoor and outdoor locations when properly installed.

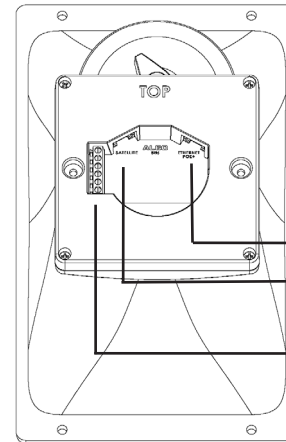
### 8196 IP Speaker Features:

- SIP, Multicast, Polycom Group Page, InformaCast, Revolution
- 16W audio output power from PoE+
- Web GUI configurable + centralized provisioning
- TLS, MTLS, SRTP security
- Near limitless zoning options
- Multicast scalable
- Ambient noise responsive
- Codec support for G.711, G.722, OPUS 48 kHz

### 1196 Satellite Horn Speaker Features:

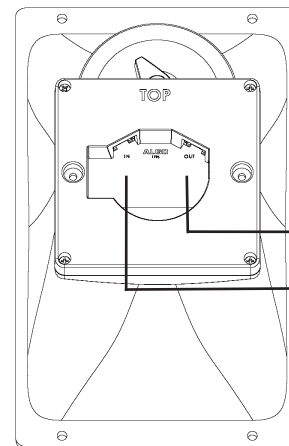
- Identical appearance and acoustical performance to 8196 IP Horn Speaker
- Fully Supervisable

Power	
PoE / PoE+	48 V PoE IEEE 802.3af/at Max 25.5 W - Idle nominal 2.5 W
SIP	
Extensions:	50 Page & 10 Alerting/Ring extensions with multicast scalability
Transport Protocols:	UDP, RTP, TCP
Security:	TLS, MTLS, SRTP
Multicast Compatibility	
Multicast:	RTP Multicast (Send & Receive 50 zones),
Third Party Multicast:	Polycm™ Group Page, Singlewire™ InformaCast, Syn-Apps™ Revolution
API	
API:	RESTful API
Digital IO	
Relay Input	Normally open or normally closed dry contact supervision. Compatible with Algo 1202 and 1203 Accessories.
Satellite Speakers	
Quantity:	Up to 3 x 1196 Satellite Ceiling Speaker
Speaker Connections:	Patch cable 4 Pair UTP 24 AWG RJ45 plug terminated T568A or T568B "Straight-Through". Maximum recommended patch cable length 50 feet (13m) between each speaker.
Supervision:	Auto-detection and monitoring of up to three satellite speakers
Configuration:	Via host 8196 IP Speaker web interface
Audio	
Audio Codecs:	G.711 A-law, G.711 u-law, G.722, Opus 48 kHz
Driver Response:	350 – 8,300 Hz (-10 dB)
Driver Sensitivity:	108 dBA 1m/1W (1kHz)
Max Audio Power:	16 Watts (shared equally between 8196 and up to 3 x 1196)
Dispersion Angle:	80 degH x 50 degV (2 kHz -6 dB)
Audio Memory:	1 GB
Microphone:	Omni-directional, talkback and ambient noise monitoring
Audio Controls:	Volume, AGC, Latency, LF Cut
Anti-Feedback Delay:	Cache to memory and release
Network	
Network:	IPv4, IPv6, DHCP, VLAN, MDNS
Secure SIP:	TLS, MTLS, SRTP
Link Layer:	LLDP, CDP
QoS:	DSCP (SIP, RTP, RTCP)
Web Interface:	HTTP, HTTPS
Provisioning:	TFTP, FTP, HTTP, HTTPS DHCP Options 66, 150, 160 Reboot via SIP Check-sync
NAT:	STUN, TURN, CRLF Keep Alive, SIP Outbound
Address Resolution:	DNS, SRV Record
Supervision:	SNMP V1.3, RTCP, Algo 8300
Redundancy:	Secondary & Tertiary SIP Servers
Environmental & Mechanical	
Satellite Speaker Connector:	1 x RJ45 output connector
Environmental:	-40 to 122 deg F (-40 to +50 degC). Designed to meet IP66 requirements. Suitable for outdoor and wet environments when properly installed.
Horn & Enclosure	UV stabilized outdoor rated plastic with stainless steel mounting hardware.
Horn Mouth Dimensions	11" x 6.6" (28cm x 16.8cm)
Mounting:	Wall, ceiling or double gang electrical box. Pole mount bracket available.
Aim Adjustment:	Three axis
Weight:	6 lb (2.7 Kg)
Compliance	
IEC 62368-1, IEEE 802.3-2018, RoHS, CE, FCC Class A, CISPR 32 Class A, CISPR 24, CSA/UL (USA & Canada)	



**8196  
IP PoE+ Horn Speaker**

RJ45 Input from PoE network switch  
RJ45 Output for satellite speaker(s)  
Relay Input & Accessory Interface



**1196  
Satellite Horn Speaker**

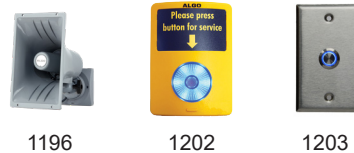
RJ45 Input from 8196 or 1196 speaker  
RJ45 Output for next satellite speaker or 1198TP Termination Plug if last speaker

**Order Codes:**

<b>8196</b>	IP PoE+ Horn Speaker
<b>8196-IC</b>	IP PoE+ Horn Speaker InformaCast
<b>8196-WP</b>	IP PoE+ Horn Speaker; Weather Proof Enclosure (IP68 Rated)
<b>1196</b>	Satellite Horn Speaker
<b>1196-WP</b>	Satellite Horn Speaker; Weather Proof Enclosure (IP68 Rated)

**Compatible Accessories:**

<b>1196TP</b>	Terminal Plug (one supplied with 8196, only required if lost)
<b>1202</b>	Customer/Emergency Assistance Button
<b>1203</b>	Wall Switch Single Gang Blue LED



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