

### Satellite Speaker Technology. Benefits of IP Paging with Reduced Costs

Rugged, wet weather capable IP horn speakers for voice paging, notification, and alerting. The 8196 is ideally deployed in logistics, manufacturing and warehouse applications where both high performance audio and product durability are required.



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.

#### 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
- Talkback capable speaker
- Wideband audio. Codec support for G.711, G.722, OPUS 48 kHz

#### 1196 SATELLITE SPEAKER FEATURES

- Identical appearance and acoustical performance to 8196 IP Speaker
- Supervised
- Simple deployment via daisy chained standard patch cable

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	Polycom™ 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	116 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

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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)	

FRONT



BACK



**Ultimate Flexibility:** Three axis rotation for widest range of vertical and horizontal adjustments - wall or ceiling mount. Suitable for outdoor and wet environments when properly installed with included mounting gaskets.

**ORDERING CODES:**

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

**COMPATIBLE ACCESSORIES:**

- 1196** Satellite Horn Speaker



1196