

Surface mount, IP speaker with satellite speaker technology

The 8199 IP PoE+ Surface Mount Speaker is a network audio device with satellite speaker technology to expand audio coverage at reduced costs. As a SIP-compliant, multicast-capable speaker with wideband audio, the 8199 provides high speech intelligibility and deployment flexibility to strengthen efforts toward critical safety, security, or emergency communication.



MOUNT TO SOLID SURFACES

The 8199 can be mounted to solid ceiling or wall surfaces made of concrete, brick, or wood to complement the 8198 IP PoE+ Ceiling Speaker that is designed for drop-ceiling installations. Though different in form factor, the 8199 maintains high-intelligibility audio, ambient noise detection, and all other Algo speaker features.

SCALE AT REDUCED COSTS

The Algo 8199 IP PoE+ Surface Mount Speaker can be deployed as a homerun IP speaker or in combination with up to three 1199 Satellite Surface Mount Speakers to minimize cabling, ports, and licensing costs. Automatically detect and continuously monitor each satellite speaker, ensuring reliable audio performance.

CONNECT TO VOIP AND UC SYSTEMS

As a SIP-compliant speaker, the 8199 can be integrated with UC platforms like Microsoft Teams, Zoom, and RingCentral as well as other VoIP technology. Configure these connections and other features such as RESTful API, ZTP, and multicast in an intuitive web interface from a remote location or on-site.

KEY FEATURES

- Satellite speaker technology; can power and supervise up to three 1199 Satellite Surface Mount Speakers
- Secure SIP using TLS, mTLS, SRTP
- Multicast-capable
- Ambient noise detection
- Configuration via user friendly web interface or auto-provisioning
- Relay input compatible with Algo endpoint accessories

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	<ul style="list-style-type: none"> • 50 Page (Capable of hands-free talkback) • 10 Emergency Alert • 10 Ring
SIP SIGNALLING/ TRANSPORT PROTOCOLS	UDP, TCP, RTP
SECURITY	TLS, SRTP, Mutual Authentication
AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband

MULTICAST

RTP MULTICAST	Send and Receive 50 Zones
AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband, Opus Fullband

COMPATIBILITY

THIRD PARTIES	<ul style="list-style-type: none"> • RESTful API • Poly Group Page™ • InformaCast® (additional license required) • Intrado Revolution® • Microsoft Teams®
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CONFIGURATION & PROVISIONING

CONFIGURATION	Web interface or provisioning server
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	<ul style="list-style-type: none"> • 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)

AUDIO

SPEAKER	6.5" (16.5 cm) Coaxial with PEI Dome Tweeter. Mica filled polypropylene cone
SPL	100 dBA (1 kHz, 16 W, 1 m)
MICROPHONE	Omnidirectional - talkback and ambient noise monitoring
FREQUENCY RESPONSE	55 - 18,000 Hz (-10 dB)
DISPERSION ANGLE	140 deg (2 kHz - 6 dB)
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
AUDIO DELAY	Programmable 1-1000 ms synchronization delay (in multicast receiver mode)
MAX AUDIO POWER	16 W

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.
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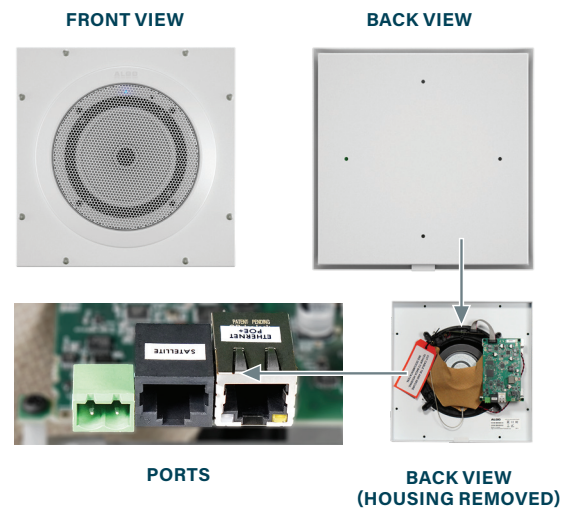
RELAY INPUT CURRENT DRAW

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 kΩ

ENVIRONMENTAL & MECHANICAL

ENVIRONMENTAL	0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing. Dry indoor locations only.
DIMENSIONS (PRODUCT)	12" x 12" x 3.4" (30.5 cm x 30.5 cm x 8.6 cm)
WEIGHT (PRODUCT)	7.0 lbs (3.2 kg)
WEIGHT (SHIPPING)	8.0 lbs (3.6 kg)
MOUNTING	Surface mountable on a solid wall using the included back box
COMPLIANCE	RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada), EN60950



ORDERING CODES:

8199	IP PoE+ Surface Mount Speaker
8199-IC	IP PoE+ Surface Mount Speaker Informacast

COMPATIBLE ACCESSORIES:

1199	Satellite Surface Mount Speaker
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