Compact Loudspeaker for Attention-Grabbing Communication

The 8180 IP Audio Alerter is a wideband, SIP-compliant and multicast-capable PoE network speaker for voice paging, emergency alerting, and loud ringing.

The 8180 is a compact, versatile device that packs a punch. Wall mountable, the 8180 is approximately eight times louder than a telephone speaker. The audio alerter features wideband audio, offering enhanced speech clarity and intelligibility for large areas and open spaces.

Leveraging multicast, the 8180 can simultaneously broadcast live voice or active ringtone over the network to other Algo IP speakers (including additional 8180s) and IP visual alerters either all at once or in zone groups.

An embedded microphone allows the 8180 to monitor ambient noise and automatically adjusts the speaker volume according to background noise levels for paging and alerting. The microphone may also be used for two-way talkback.

The 8180 contains 1 GB internal memory and is pre-loaded with several commonly used audio files for ring sounds. Users may also record or upload custom audio files, such as music, sound effects, or voice announcements.

As a 3rd-party, SIP compatible endpoint, the 8180 can integrate into most leading UC, Collaboration, and Mass Notification platforms. The audio alerter supports Secure SIP (TLS & SRTP), secure provisioning, and web configuration (HTTPS).

FEATURES

— Wideband HD audio (G.722 voice codec) for high intelligibility speech
— Secure SIP using TLS and SRTP
— Configurable via user-friendly web interface or auto-provisioning
— Ambient noise response to automatically adjust audio output level
— Two-way talkback
— Multicast send and receive
— Configure up to 50 page zones
— PoE powered (IEEE 802.3af)
— Class-D Amplifier
— Smart relay input for accessories
— Upload custom audio files for announcements and alert tones

APPLICATIONS

— Loud ringing
— Voice paging
— Emergency and safety notifications
— Zoned paging and notifications
— Suitable environments include: cafeteria, classroom, hallway, office, workshop

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POWER

POWER SOURCE	PoE (IEEE 802.3af Class 0) 48 V, 15.4 W
MAX POWER (AT DEVICE)	12.95 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
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	• RESTful API • Poly Group Page™ • Singlewire 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 Mangement 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

SPL	106 dBA at 1m (120 dBA with 1186 horn)
MICROPHONE	Omnidirectional - talkback and ambient noise monitoring
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)
DRIVER	3.0" (7.7 cm) UV Stabilized
DRIVER RESPONSE	150 - 13,000 Hz (-10 dB)
MAX AUDIO POWER	8 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.
RELAY OUTPUT*	Max 30 V 50 mA (normally open)

*NOTE	The Relay Input and Relay Output features share the same pins on the terminal block, which must be configured as either an input or output. Thus, only one of these two functions can be used per device (not both).
SPEAKER OUTPUT	To external 8 Ohm speaker (8 W). Note that if an external speaker is connected, the internal one is deactivated.
AUDIO OUTPUT	Line output level available for optional connection to external amplifier (nominal 0 dBm into 600 Ohm load).

RELAY INPUT CURRENT DRAW DETECTION

THRESHOLD	ACTIVE	IDLE	TAMPER
NORMALLY OPEN	> 4 mA	< 4 mA	N/A
NORMALLY OPEN WITH SUPERVISION	> 20 mAv	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		

ENVIRONMENTAL & MECHANICAL

ENVIRONMENTAL	0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing. Dry indoor locations only.
DIMENSIONS (PRODUCT)	7" x 4" x 2.6" (17.8 cm x 10.2 cm x 6.5 cm)
WEIGHT (PRODUCT)	1.0 lbs (0.5 kg)
WEIGHT (SHIPPING)	1.6 lbs (0.7 kg)
MOUNTING	Wall mount snap bracket included

COMPLIANCE

RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada), EN60950

FRONT **BACK**

ORDERING CODES:

8180	IP Audio Alerter G2
8180-IC	IP Audio Alerter G2 InformaCast®

COMPATIBLE ACCESSORIES:

1202	Call Button
1203	Call Switch
2507	Ring Detector

1202 **1203** **2507**