Attention-Grabbing IP Voice Paging, Loud Ringing, & Notification

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

Page extensions auto-answer to enable live voice paging over the internal wideband speaker. Ring extensions do not answer and instead activate a selected audio file from internal memory to play over the speaker. Simultaneously, the 8180 can broadcast live voice or active ringtone over the network to other Algo IP speakers (including the 8180) and IP visual alerters either all at once or in zone groups.

An embedded microphone allows the 8180 to monitor ambient noise and automatically adjust its speaker level according to background noise level for both paging and alerting. The microphone may also be used for talkback two way communication.

Equipped with a high efficiency and self-amplified (Class D) loud speaker, the 8180 is typically eight times louder than a telephone speaker. 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, music, sound effects, or voice announcements.

The 8180 supports Secure SIP using TLS and SRTP and secure provisioning and web configuration using HTTPS. In addition to SIP compatibility with over 65 unified communication, collaboration, and mass notification platforms, the 8180 also supports RESTful API for maximum application flexibility.

FEATURES

— High intelligibility wideband (G.722) speaker

— Secure SIP (TLS & SRTP)

— Ambient noise response to automatically adjust output level

— Pre-loaded with several ring tones including bell, chime, gong, buzzer, warble, and dogs

— Supports custom uploadable WAV or MP3 files for page pre-alert and notification

— Multicast send and receive capability

— PoE powered

— Dual Class D amplifiers

APPLICATIONS

— Loud ringing in noisy or variable noise environments (workshop, cafeteria)

— Voice paging (office, hallway, classroom)

— Wide area notification

— Emergency and safety notification

— School bells and scheduled alerts

— Zoned paging and notification

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POWER

POE POWERED	48 V PoE IEEE 802.3af Class 0 Max 12.95 W - Idle nominal 2.5 W

SIP

EXTENSIONS	50 Page & 10 Alerting/Ring extensions with multicast scalability
TRANSPORT PROTOCOLS	UDP, RTP, TCP
SECURITY	TLS, SRTP, Mutual Authentication

MULTICAST COMPATABILITY

MULTICAST	RTP Multicast (Send & Receive 50 zones)
THIRD PARTY MULTICAST	PolycomTM Group Page, SinglewireTM InformaCast, Syn-AppsTM Revolution

INPUT/OUTPUT

RELAY CONFIGURED AS OUTPUT	Normally open or normally closed. Max 30V 50mA. Active state configurable.
RELAY CONFIGURED AS INPUT	Normally open or normally closed dry contact supervision. Compatible with Algo 1202, 1203, and 1204 Accessories.

API

API	RESTful

AUDIO

AUDIO CODECS	G.711 A-law, G.711 u-law, G.722, Opus 48 kHz.
DRIVER	3.0" (7.7 cm) UV stabilized
DRIVER RESPONSE	150 – 13,000 Hz (- 10 dB)
DRIVER SENSITIVITY	86 dBA 1m/1W (1 kHz)
SPL	Peak 106 dBA/1m (120 dBA with optional horn speaker)
MAX AUDIO POWER	8 Watts
DISPERSION ANGLE	180° (2 kHz -6 dB)
AUDIO MEMORY + FORMAT	1 GByte user space for WAV or MP3 files
MICROPHONE	Omni-directional, talkback and ambient noise monitoring
AUDIO CONTROLS	Volume, AGC, Latency, LF Cut
ANTI-FEEDBACK DELAY	Cache to memory and release
AUDIO OUTPUTS	Speaker Output 8 Ohm 8W when internal speaker disabled Audio Output nominal 0 dBm into 600 Ohm load
SOUNDSURE™ RANGE	30 dB
RING TONES INCLUDED	Bell NA, Bell UK, Buzzer, Chime, Dogs, Gong, Warble1 (low), Warble2 (medium), Warble3 (high), Warble4 (trill)

NETWORK

NETWORK	IPv4, IPv6, DHCP, VLAN, MDNS
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
ADRESS RESOLUTION	DNS, SRV Record
SUPERVISION	SNMP V1.3, RTCP, Algo 8300
REDUNDANCY	Secondary & Tertiary SIP Servers

ENVIRONMENTAL + MECHANICAL

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

COMPLIANCE

EN60950, IEEE 802.3-2008, RFC3261, RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada)

FIRMWARE

These specifications refer to the Algo 8180 running firmware 5.2 and above.

FRONT

BACK

ORDERING CODES:

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

COMPATIBLE ACCESSORIES:

1202	Customer/Emergency Assistance Button
1203	Wall Switch Single Gang Blue LED
1204	Volume Control

| 1202 | 1203 | 1204 |