# IP Voice Paging.
# Loud Ringing.
# Notification.

The 8180 SIP Audio Alerter is a SIP compliant and multi-cast capable PoE network audio device for both audible alerting and voice paging using two types of SIP extensions.

Page extensions (up to 50) auto-answer to enable live voice paging over the internal wideband speaker. Ring extensions (up to 10) 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 high quality loud speaker, the 8180 is typically eight times louder than a telephone speaker. If the optional 1186 Horn Speaker is used, then the 8180 can be up to twenty times louder. Several audio files are pre-loaded into the 8180 internal memory for ring sounds but 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 leading premise and cloud UC platforms the 8180 also supports RESTful API for maximum application flexibility.

## Features

➤ Secure SIP (TLS & SRTP)
➤ Ambient noise compensation to automatically adjust output level
➤ High efficiency wideband speaker for voice and ringtones
➤ 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 broadcast and receive capability
➤ PoE (Power over Ethernet)

## Applications

➤ Loud ringing in noisy or variable noise environments (workshop, cafeteria)
➤ Voice paging (office, hallway, classroom)
➤ Multicast wide area notification
➤ Emergency and safety notification
➤ School bells and scheduled alerts with Algo 8301
➤ Zoned paging and notification

## Power

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|---|---|
| **PoE Powered:** | 48 V PoE IEEE 802.3af Class 0 Max 12.95 W - Idle nominal 2.5 W |

## SIP

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|---|---|
| **Extensions:** | 50 Page & 10 Alerting/Ring extensions with multicast scalability |
| **Transport Protocols:** | UDP, RTP, TCP |
| **Security:** | TLS, SRTP, Mutual Authentication |

## Multicast Compatibility

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|---|---|
| **Multicast:** | RTP Multicast (Send & Receive 50 zones), |
| **Third Party Multicast:** | Polycom™ Group Page, Singlewire™ InformaCast, Syn-Apps™ Revolution |

## Digital IO

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| **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
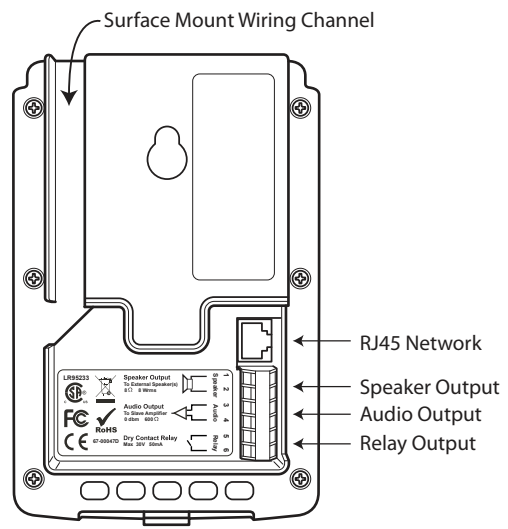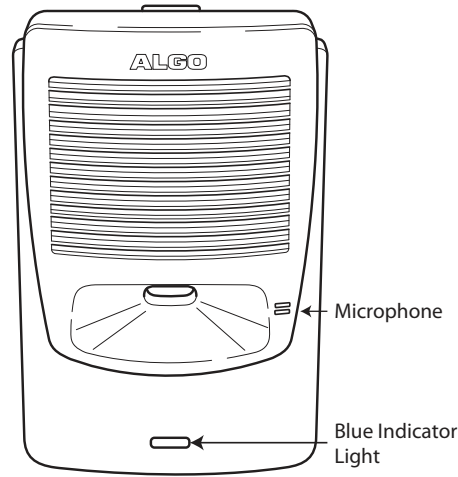
| | |
|---|---|
| **API:** | RESTful |

## Audio

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|---|---|
| **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 sine wave) |
| **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

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|---|---|
| **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 |
| **Address Resolution:** | DNS, SRV Record |
| **Supervision:** | SNMP V1.3, RTCP, Algo 8300 |
| **Redundancy:** | Secondary & Tertiary SIP Servers |

## Environmental & Mechanical

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|---|---|
| **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),



- Microphone
- Blue Indicator Light

Surface Mount Wiring Channel

- RJ45 Network
- Speaker Output
- Audio Output
- Relay Output

**Ordering Codes:**

| | |
|---|---|
| **8180** | SIP Audio Alerter G2 |
| **8180-IC** | SIP Audio Alerter G2 InformaCast |

**Compatible Accessories:**

| | |
|---|---|
| **1186** | Horn Speaker |
| **1202** | Customer/Emergency Assistance Button |
| **1203** | Wall Switch Single Gang Blue LED |
| **1204** | Volume Control |



| 1186 | 1202 | 1203 | 1204 |

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# ALGO
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