8186 IP HORN SPEAKER

Outdoor Horn Speaker for Loud and Clear Communication

The Algo 8186 IP Horn Speaker is an outdoor-rated, PoE IP speaker for voice paging, emergency notification, and loud ringing in environments that are very loud.



The Algo 8186 IP Horn Speaker is a powerful self-amplified audio communication device capable of producing 116 dB of audio output in noisy environments. The 8186 is constructed with durable material and is wet weather rated (IP65), making it ideal for both indoor and outdoor locations. The hard shell ensures the speaker can withstand impact from debris and exposure to water in extreme weather conditions.

Featuring wideband audio, Algo horn speakers provide enhanced speech clarity and intelligibility in large, open spaces and outdoor environments.

Leveraging multicast, the 8186 can simultaneously broadcast live voice or active ringtone over the network to other Algo IP speakers (including additional 8186s) and IP visual alerters either all at once or in zone groups.

An embedded microphone allows the 8186 to monitor ambient noise where volume is automatically adjusted according to background noise levels for paging and alerting. The microphone may also be used for two-way talkback.

As a 3rd-party, SIP-compliant speaker, the 8186 integrates into most leading UC, Collaboration, and Mass Notification platforms. The horn speaker 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
- IP65 outdoor rated
- Smart relay input for accessories
- Upload custom audio files for announcements and alert tones

APPLICATIONS

- Voice paging
- Emergency and safety notifications
- Loud ringing
- Zoned paging and notifications
- Suitable environments include: factory, gym, manufacturing, outdoor spaces, parking lot, warehouse, workshop

ALGO

8186 IP HORN SPEAKER

POWER	
POWER SOURCE	PoE (IEEE 802.3af Class 0) 48 V, 15.4 W
MAX POWER (AT DEVICE)	12.95 W
IDLE POWER	2.0 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	116 dBA at 1 m
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)
MAX AUDIO POWER	8 Watts

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)
RESET TERMINAL	Normally open. Only available during bootup.

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 kOhm		

ENVIRONMENTAL & MECHANICAL	
ENVIRONMENTAL	- 40 to + 50 deg C (-40 to + 122 deg F); suitable for outdoor and wet environments when properly installed. IPX6 rating.
DIMENSIONS (PRODUCT)	11" x 6.6" x 10.5" (28 cm x 16.8 cm x 26.7 cm)
WEIGHT (PRODUCT)	5.0 lbs (2.3 kg)
WEIGHT (SHIPPING)	6.5 lbs (2.9 kg)
MOUNTING	Wall, ceiling, or double gang electrical box.
AIM ADJUSTMENT	Three axis

COMPLIANCE

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

BACK VIEW



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:

8186 IP Horn Speaker
8186-IC IP Horn Speaker InformaCast®

COMPATIBLE ACCESSORIES:

1202 Call Button
1203 Call Switch
1204 Volume Control



1202



1203



1204

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Note: Specifications are subject to change without notice. Some features may only be available in specific firmware or hardware releases.