Wideband Ceiling Speaker for Clear Communication

The 8188 IP Ceiling Speaker is a SIP-compliant and multicast-capable PoE network speaker designed to deliver clear voice paging, emergency notification, loud ringing, and background music.

The 8188 IP Ceiling Speaker is a network speaker designed to deliver excellent audio quality in drop ceiling deployments. Featuring wideband audio, Algo ceiling speakers provide enhanced speech clarity and intelligibility for indoor locations, such as offices, classrooms, and hallways.

Leveraging multicast, the 8188 can simultaneously broadcast live voice or active ringtone over the network to other Algo IP speakers (including additional 8188s) and IP visual alerters either all at once or in zone groups.

An embedded microphone allows the 8188 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.

The 8188 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-compliant speaker, the 8188 integrates into most leading UC, Collaboration, and Mass Notification platforms. The surface mount 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
— Smart relay input for accessories
— Upload custom audio files for announcements and alert tones

APPLICATIONS

— Voice paging
— Emergency and safety notifications
— Background music
— Loud ringing
— Zoned paging and notifications
— Suitable environments include: office, hallway, classroom, reception area, cafeteria
— The 8188 is ideal for installing in ceiling tiles (for surface installation, see the 8189)

Algo Communication Products Ltd.

ALGOSOLUTIONS.COM

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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™ • 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

SPEAKER	6.5" (16.5 cm) coaxial with PEI dome tweeter. Mica filled polypropylene cone.
SPL	97 dBA (1 kHz, 8 W, 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
MAX AUDIO POWER	8 W

INPUT/OUTPUT

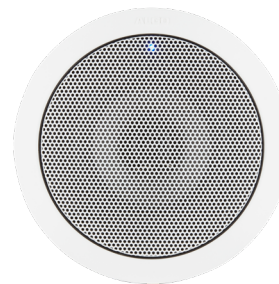|	
RELAY INPUT	Normally open or normally closed dry contact with supervision. Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, EOL termination.
RELAY OUTPUT	Max 30 V 50 mA (normally open)

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 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)	8" (20.5 cm) diameter without trim ring, 0.8" (24.9 cm) with trim ring, 6.9" (17.5 cm) total height
WEIGHT (PRODUCT)	4.5 lbs (2.0 kg)
WEIGHT (SHIPPING)	6.1 lbs (2.7 kg)
MOUNTING	Blind mounts into 8" (20.5 cm) hole. Clearance requirement of 5.5" (14.0 cm) above 1/2" (1.27 cm) gypsum board ceiling

COMPLIANCE

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

FRONT **BACK**

ORDERING CODES:

8188	IP Ceiling Speaker
8188-IC	IP Ceiling Speaker InformaCast
8188B	IP Ceiling Speaker Black

COMPATIBLE ACCESSORIES:

8188MEM	Hydrophobic Membrane Screen
81X8TBR	Ceiling Tile Support Bracket
81X8T2X2	24" x 24" Drop-in Panel
1202	Call Button
1203	Call Switch
1204	Volume Control
2507	Ring Detector

1202 **1203** **1204** **2507**