ALGO

8190S IP SPEAKER - CLOCK & VISUAL ALERTER

High Intelligibility Speaker with Clock Display and Visual Alerter

The 8190S IP Speaker – Clock & Visual Alerter is a SIP-compliant and multicast-capable PoE network speaker often installed in classrooms to deliver clear voice paging, emergency notification, loud ringing, and background music with the addition of a clock display and multi-color visual alerter.

The 8190S IP Speaker – Clock & Visual Alerter is a network-based wall-mount speaker designed to deliver clear audio communication with the addition of a high visibility clock and visual alerting. Using a four-speaker line array, the 8190S provides asymmetric sound dispersion for improved sound distribution in classrooms and other office environments. The LEDs on either side of the speaker offer highly noticeable visual communication with four color selections: red, blue, amber, and green. The speaker's digital clock automatically synchronizes with an NTP server, ensuring time accuracy.

Featuring wideband audio, the 8190S provides enhanced speech clarity and intelligibility in most indoor locations, such as classrooms and hallways.

Leveraging multicast, the 8190S can simultaneously broadcast live voice or active ringtone over the network to other Algo IP Speakers (including additional 8190S devices) and IP Visual Alerters either all at once or in zone groups.

An embedded microphone allows the 8190S 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 8190S 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 8190S integrates into most leading UC, Collaboration, and Mass Notification platforms. The 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
- LED digital clock
- Four color LED visual alerters (red, green, blue, amber)
- 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
- Front Button for configurable actions

APPLICATIONS

- Voice paging
- Emergency and safety notifications
- Background music
- Loud ringing
- Clock display
- Visual notification
- Zoned paging and notifications
- Suitable environments include: classroom, cafeteria, office, hallway, reception area.
- The 8190S is ideal for audio and visual communication (for audio-only communication, see the 8190)

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8190S IP SPEAKER - CLOCK & VISUAL ALERTER

POWER	
POWER SOURCE	PoE+ (IEEE 802.3at Type 2 Class 0) 48 V, 30 W
MAX POWER (AT DEVICE)	25.5 W
IDLE POWER	5-8 W, depending on time displayed on clock

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	4 element wideband array
SPL	98 dBA at 1 m
MICROPHONE	Omnidirectional - talkback and ambient noise monitoring
FREQUENCY RESPONSE	100 - 15,000 Hz +/- 3 dB
DISPERSION ANGLE	140 deg H x 25 deg V (-6 dB 2 kHz)
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 W

CLOCK	
DISPLAY	White LED 2.25" (57.2 mm)

OPTICAL	
VISUAL ALERTING	24 Cree LED per side
4 COLORS	• Red, Blue, Green, Amber • 12 LEDs of each color • 10 Flash Patterns • 3 Brightness Levels

INPUT/OUTPUT	
RELAY INPUT	Normally open or normally closed dry contact with supervision. Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, 1211 Single Button, 1212 Dual Button, EOL termination.
RELAY OUTPUT	Max 30 V 50 mA (normally open)
FRONT BUTTON	Built-in illuminated button below speakers
OTHER PORTS	• Door control • 24 V Output

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 kΩ		

ENVIRONMENTAL & MECHANICAL	
ENVIRONMENTAL	0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing. Dry indoor locations only.
ENCLOSURE	High impact UV stabilized flame retardant plastic - light grey
DIMENSIONS (PRODUCT)	16" x 8.25" x 3" (40.7 cm x 21.0 cm x 7.6 cm)
WEIGHT (PRODUCT)	5.2 lbs (2.4 kg)
WEIGHT (PRODUCT+BRACKET)	7.2 lbs (3.3 kg)
WEIGHT (SHIPPING)	8.10 lbs (3.7 kg)
MOUNTING	Wall mount metal bracket included. Concealed wiring or surface conduit (1/2") Includes anti-tamper screws.

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

FRONT

BACK

ORDERING CODES:

8190S IP Speaker – Clock & Visual Alerter
8190S-IC InformaCast IP Speaker – Clock & Visual Alerter

COMPATIBLE ACCESSORIES:

1202 Call Button
1203 Call Switch
1204 Volume Control
1211 Single Button
1212 Dual Button

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