

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
- Built-in call button

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)

8190S IP SPEAKER - CLOCK & VISUAL ALERTER

	B. E. WEEE CO. C. L. T. C.	
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 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 & PROVIS	IONING	
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	

White LED 2.25" (57.2 mm)

24 Cree LED per side
 Red, Blue, Green, Amber 12 LEDs of each color 10 Flash Patterns 3 Brightness Levels
Normally open or normally closed dry contact with supervision. Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, EOL termination.
Max 30 V 50 mA (normally open)
Built-in illuminated button below speakers
• Door control • 24 V Output

RELAY INPUT CURRENT	DRAW DETECTIO	N	
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	on 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.	

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

FRONT



BACK



ORDERING CODES:

B190S IP Speaker – Clock & Visual Alerter

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

COMPATIBLE ACCESSORIES:

1202 Call Button1203 Call Switch1204 Volume Control



DISPLAY