

## High Intelligibility & Visibility

Algo introduces a new speaker designed for education but suitable for any application requiring crisp clear audio with high visibility clock and visual alerting.

The 8190 integrates proven technology from Algo IP speakers and strobe lights into a single wall mount unit with clock.

### Speaker Array & Wideband

Instead of one speaker, the 8190 is built using a four speaker line array which provides asymmetric sound dispersion for improved sound distribution in classrooms from a wall mounted speaker. Wideband G.722 HD codec support provides crisp clear audio for high intelligibility voice paging and notification for emergency, safety and security alerting.

### Embedded Microphone

Consistent with other Algo IP speakers, the 8190 includes a microphone for monitoring and adapting to ambient noise levels. This means voice paging and bell tones are always heard but never too loud. The microphone can also be enabled for hands-free talk back.

### SIP and Multicast Capable

The 8190 is compatible with premise or cloud UC platforms supporting third party SIP endpoints. Calling a SIP extension in the 8190 can trigger an auto-answer page or activate WAV files stored in memory to play for loud ringing, informational and emergency notification.

Multicast receive capabilities include standard RTP multicast, Polycom Group Page™ and InformaCast™. In conjunction with the Algo 8301 Paging Adapter, a school-wide public address system with 50+ zones can be configured including emergency notification and bell scheduling.



8190S Shown with Optional LED Visual Alerting

### Digital Clock

The 8190 includes an integrated digital clock automatically synchronized with network time. For maximum contrast, the digits are 2.3" tall and illuminated white on a black background and dimmable.

### Call Button

An integrated backlit call button can be configured to initiate a telephone call for hands-free two way communication.

### LED Visual Alerting/Strobe Option

Optional integrated RGBW LED alerting capability is available with multiple flash patterns and color combinations activated by SIP or multicast for notification events.

## Specifications

<b>Power Input:</b>	PoE IEEE 802.3af or 802.3at (PoE+ recommended) (Max 30W) - Idle nominal 2.0W without clock active
<b>SIP:</b>	Paging extension (with or without hands-free talkback) 10 Audible/Visual alerting extensions UDP, TCP, TLS, RTP, SRTP
<b>Multicast:</b>	Receive 50 zones IGMP, RTP, Polycom Group Page, InformaCast
<b>Audio Codecs:</b>	G.711 A-law, G.711 u-law, G.722 Wideband
<b>Configuration:</b>	Web interface or provisioning server
<b>Web Interface:</b>	HTTP, HTTPS
<b>Provisioning:</b>	TFTP, FTP, HTTP, HTTPS DHCP Options 66, 150, 160 Reboot via SIP check-sync
<b>Networking:</b>	IPv4, DHCP, VLAN, MDNS
<b>Link Layer:</b>	LLDP, CDP
<b>QoS:</b>	DSCP
<b>Supervision:</b>	SNMP
<b>NAT:</b>	STUN, TURN, CRLF Keep Alive SIP Outbound
<b>Address Resolution:</b>	DNS, SRV Record
<b>Redundancy:</b>	Secondary and tertiary SIP server
<b>Time:</b>	NTP Server (up to four)
<b>Enclosure:</b>	High impact UV stabilized flame retardant plastic - light grey with concealed metal mounting bracket.
<b>Button Functions:</b>	Call SIP Extension
<b>Speaker:</b>	4 Element wideband array Neodymium
<b>SPL:</b>	98 dB SPL @ 1m
<b>Freq Response:</b>	100 - 15,000 Hz +/- 3dB
<b>Dispersion Angle:</b>	140 deg H x 25 deg V (-6dB 2 kHz)
<b>Microphone:</b>	Omnidirectional Talkback & ambient noise monitoring
<b>Audio Memory:</b>	1 GByte audio storage
<b>Relay Output:</b>	Normally open or normally closed dry contact 50mA 30V Max. Activation event configurable.
<b>Relay Input:</b>	Max 6.5 kOhm external resistance. Compatible with 1202 & 1203 Call Buttons and 1204 10-Step Volume Control
<b>Visual Alerting:</b>	Optional - 24 Cree LED per side RGBW
<b>Clock:</b>	White LED 2.25" (57.2 mm)
<b>Door Relay:</b>	Max 5A 30V. Relay input monitors door position
<b>Environmental:</b>	Indoor 32 to +104 deg F (0 to +40 deg C)
<b>Dimensions:</b>	8.25" W x 16" H x 3" D 21.0 cm W x 40.6 cm H x 7.6 cm D
<b>Mounting:</b>	Wall mount metal bracket included. Concealed wiring or surface conduit (1/2"). Includes anti-tamper screws.
<b>Weight:</b>	9.2 lb (4.2Kg)
<b>Regulatory</b>	EN60950:2001, IEEE 802.3-2008, RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada)
<b>Compliance:</b>	



8190 Without Strobe Option



8190 Connections



8190 Call Button



Wall Mount Bracket

### Ordering Information:

8190	SIP Classroom Speaker Clock
8190S	SIP Classroom Speaker Clock Strobe

### Compatible Products:

1202	Call Button
1203	Call Switch
1204	Volume Control