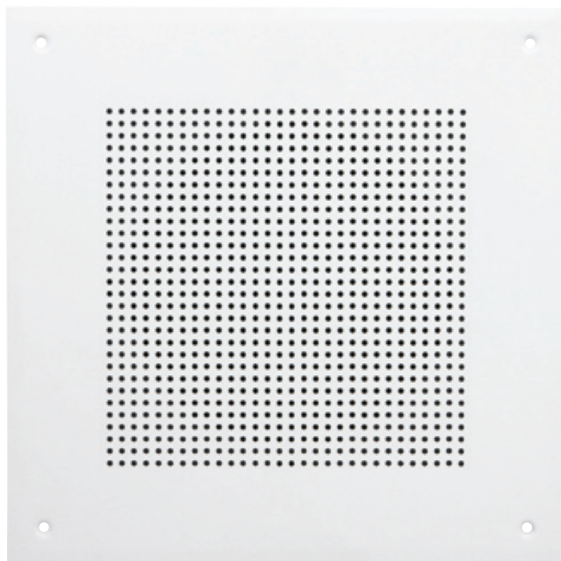# I8S

IP Compliant Loudspeaker System

I8S

Features

- IP Speakers From Atlas Sound Allow Users or System Administrators to Send Live, Prerecorded, or Ad Hoc Messages Along with Control Data to Speaker End Points Over New or Existing Multicast Enabled Local Area Networks.
- Highly Efficient 10oz Dual Cone Loudspeaker System Provides 94dB Average SPL @ 1W/1M and is Capable of 103dB @ 1 Meter Via the Rated Power of the Internal IP Addressable Amplifier
- 105˚ Dispersion in the 2kHz Octave Band (-6dB)
- Wide Frequency Response of 86Hz – 8kHz (±5dB) is Perfect for Speech and General Messaging Playback

General Description

Model I8S from Atlas Sound consists of a factory assembled loudspeaker and baffle with PCB amplifier / control board securely mounted to the rear of the baffle via concealed weld studs. The amplifier / control board is capable of producing 9 Watts RMS into the 8Ω loudspeaker with 9VDC minimum power provided by IEEE 802.3af compliant POE switches. Local 12VDC – 18VDC PSUs may also be used instead of POE switches. Interconnection is via a board mounted female RJ-45 connector. The industry standard C10A loudspeaker used in the I8S is a dual cone 8" (205mm) loudspeaker with a 10oz (260g) ceramic magnet. The 18-gauge construction of the metal baffle provides security and durability in commercial applications. The baffle is finished in neutral white electrostatic powder coat.

Loudspeaker Specifications

Speaker Size	8" (203mm)
Power Handling	15 watts
Sensitivity (SPL @ 1W/1M)	94dB
Frequency Response[1]	86Hz – 8kHz (±5dB)
Dispersion[2]	105˚
Cone Material	Treated Paper
Surround Material & Dampening	Polymer Dampened Integral Paper Surround
Flux Density	10,600 Gauss, 1.06 Tesla
Magnet Weight	Nominal, 10oz (260g)
Basket Material	Stamped, Plated 20-gauge CRS
Voice Coil Diameter	1" (25mm)
Voice Coil Material	Copper
Voice Coil Former Material	Black Anodized Aluminum
Voice Coil Winding Width	0.225" (6mm)
Top Plate Thickness	.239" (6mm)
Weight	32 oz (908 g)
Diameter	8⅛" (206mm)
Depth	2⅞" (73mm)
Mounting Dimensions	7⅝" (194mm) Bolt Circle

1. Measured in recommended enclosure
2. 6dB down point, 2 kHz octave band

Baffle Specifications

Baffle Material	18-gauge CRS
Overall Width	11½" (292mm)
Overall Height	11½" (292mm)
Depth *(Front of Baffle to Rear of Speaker)*	4.21" (107mm)
Depth *(Rear of Baffle to Rear of Speaker)*	4.07" (103mm)
Color	White

Amplifier / Control Specifications

Power Rating	9 Watts RMS into an 8Ω Load with 9VDC Input
Inputs	RJ-45 Female on PCB Accessable from Rear of Speaker
Outputs	2 Wire Main ± Terminated to Loudspeaker
Power Source	AF Compliant POE Network Switches / Local 12-18VDC PSU
Dimensions	4¼" (108mm) x 7¼" (184mm)
Mounting	Via Custom Designed CRS Bracket (Factory Assembled)
Network Control	Multicast Enabled Networks

Atlas Sound

Applications

Atlas Sound offers a comprehensive selection of loudspeaker products to compliment ControlKom™ and Informacast® software deployments in K-12, Campus Wide Notification, Civil / Municipal, Industrial, Corporate and Health Care applications. The loudspeakers are also SIP compatible (contact Atlas Sound for SIP documentation) to allow basic functionality with most any VoIP system. In addition, Atlas Sound is actively seeking partnerships with VoIP solution providers to create custom solutions utilizing the flexible IP loudspeaker API (Application Programming Interface).

Atlas Sound IP speakers provide nearly unlimited flexibility for paging and notification systems. With IP compliant loudspeaker products from Atlas Sound, system designers and integrators will have the ability to deploy extremely large scale and complex paging systems over new or existing networks with the convenience of centralized administration by IT personnel.

Extreme cost savings can also be realized from the elimination of separate "stand alone" paging & clock / bell systems in education applications.

Available Optional Enclosures:

ENCLOSURE IS NOT INCLUDED.

SEA-I8S — Surface mount, angled enclosure for I8S, neutral white finish

SEST-I8S — Surface mount, straight enclosure for I8S, neutral white finish

FEST-I8S — Flush mount straight enclosure for I8S, reclaimed powder coat finish

Architect & Engineer Specifications

Unit shall be Atlas Sound Model I8S. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, metal baffle, and enclosure. The loudspeaker shall have a 10oz (260g) ceramic magnet and a seamless cone.

Frequency response range shall be 86Hz – 8kHz (±5dB). Sensitivity shall be 94dB average. Voice coil former shall be black anodized aluminum to help dissipate heat, have an impedance of 8Ω and a diameter of 1" (25mm). The IP addressable PCB amplifier / control shall be mounted to the rear of the loudspeaker baffle via custom designed CRS bracket. The amplifier / control PCB shall be capable of producing 9 Watts RMS with a minimum of 9VDC power provided either locally or via IEEE 802.3af compliant POE switches. Interconnect shall be via female RJ-45 connector mounted to the PCB. All control functionality of the PCB amplifier shall be determined via software. The metal loudspeaker baffle overall dimensions shall be 11½" (292mm) square. Finish shall be Atlas Sound neutral white electrostatic powder coat.

Optional enclosures shall include:

SEA-I8S — surface mount angled enclosure for I8S - neutral white finish
SEST-I8S — surface mount straight enclosure for I8S - neutral white finish
FEST-I8S — flush mount straight enclosure for I8S - reclaimed powder coat finish.

**I8S
(Rear)**

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