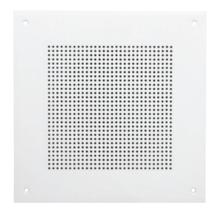
185M



IP Compliant Loudspeaker System with Internal Microphone



I8SM

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 I8SM 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 I8SM 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. An omni directional subminiature (1/4" / 6mm), electret condenser microphone shall be mounted behind the perforated steel grille adjacent to the loudspeaker for 2-way communication and/or monitoring from the loudspeaker location to any PC or IP phone in the system.

Loudspeaker Specifications

Speaker Size 8" (203mm) Power Handling 15 watts Sensitivity (SPL @ 1W/1M) 94dB

Frequency Response¹ 86Hz - 8kHz (±5dB)

Dispersion² 105°

Treated Paper Cone Material

Surround Material & Dampening Polymer Dampened Integral Paper

10,600 Gauss, 1.06 Tesla Flux Density 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) Diameter 8.125" (206mm) Depth 2.875" (73mm)

Mounting Dimensions 7.625" (194mm) Bolt Circle

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

Microphone Specifications

Microphone Type Omni Directional Subminiature Electret Condenser

Diameter 1/4" (6mm)

Baffle Specifications

Baffle Material 18-gauge CRS

Overall Width / Height 111/2" (292mm) Square

4.21" (107mm) Depth (Front of Baffle to Rear of Speaker) 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

RJ-45 Female on PCB Accessable from Rear of Inputs

Speaker

Outputs 2 Wire Main ± Terminated to Loudspeaker AF Compliant POE Network Switches / Local Power Source

12-18VDC PSU

Dimensions 41/4" (108mm) x 71/4" (184mm)

Mounting 4 Holes to Weld Studs on Baffle (Factory Assembled)

Network Control Multicast Enabled Networks

GPI Specifications

50V at 500mA Max Relay Output

Input Minimum 1mA to run on 50V Max



Applications

Atlas Sound offers a comprehensive selection of loudspeaker products to compliment Prerecorded, or Ad ™ and Informacast® (Cisco®) 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-18S Surface mount, angled enclosure for I8SM, neutral white finish

SEST-I8S Surface mount, straight enclosure for I8SM, neutral white

finish

FEST-I8S Flush mount straight enclosure for I8SM, reclaimed powder

coat finish

Architect & Engineer Specifications

Unit shall be Atlas Sound Model I8SM. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, metal baffle, and microphone. 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 AF 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. An omni directional subminiature (1/4" / 6mm), electret condenser microphone shall be mounted behind the perforated steel grille adjacent to the loudspeaker for 2-way communication and/ or monitoring from the loudspeaker location to any PC or IP phone in the system. The microphone interface board shall include two software controlled inputs and two relay outputs. The metal loudspeaker baffle overall dimensions shall be 111/2" (292mm) square. Finish shall be Atlas Sound neutral white electrostatic powder coat.

Optional enclosures shall include:

SEA-I8S surface mount angled enclosure for I8SM - neutral white finish

SEST-I8S surface mount straight enclosure for I8SM - neutral white

FEST-I8S flush mount straight enclosure for I8SM - reclaimed powder coat finish.





