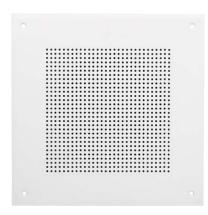# I8SM-CK

IP Compliant Loudspeaker System with Internal Microphone for Use With AtlasSound ControlKom®2.0 or Syn-Apps SA Announce Software

I8SM-CK

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
- UL60950-1 listed
- Canadian UL60950-1 listed

General Description

Model I8SM-CK 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 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-CK 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 (¼" / 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 Response[1]	86Hz – 8kHz (±5dB)
Dispersion[2]	105˚
Cone Material	Treated Paper
Surround Material & Dampening	Dampened Self-Storage
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)
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	¼" (6mm)

Baffle Specifications

Baffle Material	18-gauge CRS
Overall Width / Height	11½" (292mm) Square
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
Inputs	RJ-45 Female on PCB Accessable from Rear of Speaker
Outputs	2 Wire Main ± Terminated to Loudspeaker
Power Source	IEEE 802.3af Compliant POE Network Switches / Local 12-18VDC PSU
Dimensions	4¼" (108mm) x 7¼" (184mm)
Mounting	4 Holes to Weld Studs on Baffle (Factory Assembled)
Network Control	Multicast Enabled Networks

GPI Specifications

Relay Output	50V at 500mA Max
Input	Minimum 1mA to run on 50V Max

Applications

Atlas Sound offers a comprehensive selection of loudspeaker products to compliment ControlKom®2.0 software deployments in K-12, Campus Wide Notification, Civil / Municipal, Industrial, Corporate, and Health Care applications. 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 I8SM-CK, neutral white finish

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

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

Architect & Engineer Specifications

Unit shall be Atlas Sound Model I8SM-CK. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, metal baffle, and microphone. Unit shall be UL60950-1 listed. 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 concealed weld studs. The amplifier / control PCB shall be capable of producing 9 Watts RMS with 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. An omni directional subminiature (¼" / 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 11½" (292mm) square. Finish shall be Atlas Sound neutral white electrostatic powder coat.

Optional enclosures shall include:

SEA-I8S   Surface mount angled enclosure for I8SM-CK - neutral white finish

SEST-I8S   Surface mount straight enclosure for I8SM-CK - neutral white finish

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

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