I128SYS

IP Compliant Loudspeaker System

I128SYS

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.
- Also Compatible with SIP (Session Initiation Protocol) VoIP Systems. Contact Atlas Sound for SIP Configuration Info.
- 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
- Easy to Install 1' x 2' "Drop In" design

General Description

Model I128SYS from Atlas Sound consists of a factory assembled loudspeaker, baffle, and 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 AF 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 I128SYS is a dual cone 8" (205mm) loudspeaker with a 10oz (260g) ceramic magnet. It includes a curvelinear paper cone for lower harmonic distortion. The loudspeaker is also equipped with a full 1" (25mm) diameter copper voice coil with aluminum former for better heat dissipation. The 18-gauge construction of the metal baffle provides security and durability in commercial applications. A perforated 22-gauge metal screen is provided over the loudspeaker to maximize performance by allowing the optimum percentage of open area forward of the loudspeaker. 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	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

Baffle Specifications

Baffle Material	18-gauge CRS
Speaker Grille Material	22-gauge Perforated Steel
Overall Width	11.94" (303mm)
Overall Height	23.67" (601mm)
Depth *(Front of Baffle to Rear of Enclosure)*	4.89" (124mm)
Color	White

Amplifier / Control Specifications

Power Rating	9 Watts RMS into an 8Ω Load with 9VDC Input
Inputs	RJ-45 Female on PCB Accessible from Rear of Speaker
Outputs	2 Wire Main ± Terminated to Loudspeaker
Power Source	IEEE 802.3af Compliant POE Network Switches or Local 12VDC - 18VDC PSU
Dimensions	4.25" (108mm) x 7.25" (184mm)
Mounting	Via Custom Designed CRS Bracket
Network Control	Multicast Enabled Networks

Atlas Sound

Applications

The perfect choice for Education, Military / Government, and Large Scale Corporate applications. It provides the capability to simultaneously send a multicast audio stream and text messages to any combination of IP phones, Atlas Sound IP speakers, and PCs. With the push of a single button on the phone or a single click from a PC, a user can send a live, recorded, or scheduled broadcast to one or more paging groups. 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 when ControlKom™ is utilized in education applications in conjunction with the model I128SYS speaker system.

Architect & Engineer Specifications

Unit shall be Atlas Sound Model I128SYS. 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 11.94" (303mm) wide by 23.67" (601mm) tall. Enclosure shall be included. Finish shall be Atlas Sound neutral white electrostatic powder coat.

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