INFORMACAST® IP COMPLIANT LOUDSPEAKER SYSTEM
POWERED BY CISCO® POE NETWORK SWITCHES

**I128SYS
(Front View)**

**I128SYS
(Back View)**

FEATURES

- Use with Berbee InformaCast® software, Cisco® POE networks & Cisco® IP Telephones to create extremely versatile paging and messaging systems
- Highly efficient 10 oz dual cone loudspeaker system provides 94 dB average SPL @ 1 W/1 M and is capable of 103 dB @ 1 meter via the rated power of the internal IP addressable amplifier
- 105˚ dispersion in the 2 kHz octave band (-6 dB)
- Wide frequency response of 86Hz to 8kHz (-3 dB) is perfect for speech and general messaging playback

APPLICATIONS

The perfect choice for education, military/government, and large scale corporate applications, Berbee's InformaCast IP Broadcasting Solution revolutionizes communication, clock/bell and message playback functionality. It provides the capability to simultaneously send a multicast audio stream and text messages to any combination of Cisco 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 InformaCast 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 Cisco networks with the convenience of centralized administration by IT personnel.
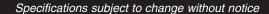
Extreme cost savings can also be realized from the elimination of separate "stand alone" paging systems when InformaCast is utilized in education applications in conjunction with the model I128SYS speaker system.

GENERAL DESCRIPTION

Model I128SYS from Atlas Sound consists of a factory assembled loudspeaker/baffle with PCB amp/control board securely mounted to the rear of the baffle via concealed weld studs. The amp/control board is capable of producing 9 Watts RMS into the 8 Ω loudspeaker with 9VDC minimum power provided by Cisco IEEE 802.3AF compliant POE switches. (local 12-18VDC 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" (205 mm) loudspeaker with a 10 oz (260 g) ceramic magnet. It includes a curvelinear paper cone for lower harmonic distortion. The loudspeaker is also equipped with a full 1" (25 mm) 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. The baffle is finished in neutral white electrostatic powder coat and is packaged with all necessary mounting screws.

Specifications subject to change without notice

Atlas Sound

1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A.
TELEPHONE: (800) 876-3333 / FAX (800) 765-3435

AtlasSound.com

ARCHITECT AND 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 enclosures. The loudspeaker shall have a 10 oz (260 g) ceramic magnet and a seamless cone. Frequency response range shall be 86 Hz to 8 kHz (-3 dB). Sensitivity shall be 94 dB average. Voice coil former shall be black anodized aluminum to help dissipate heat, have an impedance of 8 Ω and a diameter of 1" (25 mm). 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 a minimum of 9VDC power provided either locally or via Cisco 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" (303 mm) wide by 23.67" (601 mm) tall. Baffle construction shall be of 18-gauge cold rolled steel. Finish shall be Atlas Sound neutral white electrostatic powder coat. Enclosure shall be included.

Loudspeaker Specifications	
Speaker Size	8" (203 mm)
Power Handling	15 W
Sensitivity (SPL @ 1 W/1 M)	94 dB
Frequencey Response[1]	86 Hz to 8 kHz
Dispersion[2]	52.5˚
Cone Material	Treated Paper
Surround Material & Dampening	Dampened self-storage
Flux Density	10,600 Gauss, 1.06 Tesla
Magnet Weight	Nominal, 10 oz (260 g)
Basket Material	Stamped, Plated 20-gauge CRS
Voice Coil Diameter	1" (25 mm)
Voice Coil Material	Cooper
Voice Coil Former Material	Black Anodized Aluminum
Voice Coil Winding Width	0.225 (6 mm)
Top Plate Thickness	.239 (96 mm)
Weight	32 oz (908 g)
Diameter & Depth	8.125" (206 mm) Dia. & 2.875" (73 mm) D
Mounting Dimensions	7.625" (194 mm) Bolt Circle
1. Measured in reccomended enclosure 2. 3 dB down point, 2 kHz octave band	

Baffle Specifications	
Baffle material	18-gauge CRS
Speaker grille material	22 gauge perforated steel
Loudspeaker cut-out dimension	9.125" (232 mm) x 6.5" (175 mm)
Overall Width x Height	11.94" (303 mm) W x 23.67" (601 mm) H
Depth - Front of baffle to rear of enclosure	4.89" (124 mm)
Color	White

Amplifier/Controller Specifications	
Power Rating	9W RMS into 8 Ω load with 9VDC in
Inputs	RJ-45 female on PCB accessable from rear of baffle
Outputs	2 wire main ± terminated to loudspeaker
Power Source	Cisco IEEE 802.3AF compliant POE network switches local 12-18VDC PSU
Dimensions	4.25" (108 mm) by 7.25" (184 mm)
Mounting	4 holes to weld studs on baffle (factory assembled)
Network Control	Berbee Informacast on multicast enabled networks

Specifications subject to change without notice

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