I8SC

IP Compliant Clock / Loudspeaker System

I8SC

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
- Network Controlled, High Visibility Red LED Clock

General Description

Model I8SC from Atlas Sound consists of a factory assembled loudspeaker, LED clock, baffle with PCB amplifier, and 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 I8SC is a dual cone 8" (205mm) loudspeaker with a 10oz (260g) ceramic magnet. The LED clock is a dot matrix 32x8 LED display. 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	32oz (908g)
Diameter	8⅛" (206mm)
Depth	2⅞" (73mm)
Mounting Dimensions	7⅝" (194mm) Bolt Circle

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

Clock Specifications

Display	32x8 LED Dot Matrix
LEDs Per Character	40
Character Height	2½" (64mm)
Character Width	1¼" (32mm)
Viewable Clock Surface	9½" (241mm) x 2½" (64mm)
Clock Control	Multicast Enabled Networks

Baffle Specifications

Baffle Material	18-gauge CRS
Overall Width	12.88" (327mm)
Overall Height	14.38" (365mm)
Depth *(Front of Baffle to Rear of Speaker)*	4.21" (107mm)
Depth *(Rear of Baffle to Rear of Speaker)*	4.07" (103mm)
Color	White

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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	IEEE 802.3af Compliant POE Network Switches / Local 12VDC – 18VDC PSU
Dimensions	4¼" (108mm) x 7¼" (184mm)
Mounting	4 Holes to Weld Studs on Baffle (Factory Assembled)
Network Control	Multicast Enabled Networks

Available Optional Enclosures:

ENCLOSURE IS NOT INCLUDED.

SEA-I8SC	Surface mount, angled enclosure for I8SC, neutral white finish
SEST-I8SC	Surface mount, straight enclosure for I8SC, neutral white finish
FEST-I8SC	Flush mount straight enclosure for I8SC, reclaimed powder coat finish

I8SC
(Rear)

Architect & Engineer Specifications

Unit shall be Atlas Sound Model I8SC. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, LED clock, and metal baffle. 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 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. The 32x8 dot matrix LED clock shall include 40 red LEDs per character. Each character shall be 2½" (64mm) high by 1¼" (32mm) wide. Overall viewable dimensions of the LED clock face shall be 9½" (241mm) wide by 2½" (64mm) tall. All control functionality of the PCB amplifier and clock control shall be determined via software. The metal loudspeaker baffle overall dimensions shall be 12.88" (327mm) wide by 14.38" (365mm) tall. Baffle construction shall be of 18-gauge cold rolled steel with a 9⅛" (232mm) wide by 6⅞" (175mm) 22-gauge perforated metal screen spot welded over the loudspeaker cut-out. Finish shall be Atlas Sound neutral white electrostatic powder coat.

Optional enclosures shall include:

SEA-I8SC	surface mount angled enclosure for I8SC neutral white finish
SEST-I8SC	surface mount straight enclosure for I8SC neutral white finish
FEST-I8SC	flush mount straight enclosure for I8SC reclaimed powder coat finish.