



I8SCH

IP Compliant Clock / Horn Loudspeaker System



I8SCH

Features

- IP Speakers From Atlas Sound Allow Users or System Administrators to Send Live, Prerecorded, or Ad Hoc Messages Along with Control Data and Scrolling Text to Speaker End Points Over New or Existing Multicast Enabled Local Area Networks.
- Highly Efficient APF Horn Loudspeaker System Provides 104dB Average SPL @ 1W/1M and is Capable of 113dB @ 1 Meter Via the Rated Power of the Internal IP Addressable Amplifier.
- 95° Dispersion in the 2kHz Octave Band (-6dB)
- Frequency Response of 700Hz – 5.5kHz (± 5 dB) is Perfect for High Intelligibility Speech and General Messaging Playback.
- Network Controlled, High Visibility Red LED Clock

General Description

Model I8SCH from Atlas Sound consists of a factory assembled horn type 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 8 Ω 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 APF-15 loudspeaker used in the I8SCH is a highly efficient 15 Watt compression driver with a proven record of outstanding service and reliability. A double re-entrant design provides superior audibility of voice and tone signaling.

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

Power Handling	15 Watts Continuous
Sensitivity	120dB / 15 Watts (peak) 114dB / 15 Watts @ M (avg) 700Hz – 5.5kHz 104dB 1W/1M (avg) 700Hz – 5.5kHz
Frequency Response	600Hz – 14kHz (nominal) 700Hz – 5.5kHz (± 6 dB)
Dispersion	95° (-6dB, 2kHz Octave Band)
Diameter	5 $\frac{5}{8}$ " (143mm)
Depth	3 $\frac{7}{16}$ " (87mm)
Flange Diameter	6 $\frac{15}{16}$ " (176mm)
Finish	Grey Baked Epoxy

Clock Specifications

Display	32x8 LED Dot Matrix
LEDs Per Character	40
Character Height	2 $\frac{1}{2}$ " (64mm)
Character Width	1 $\frac{1}{4}$ " (32mm)
Viewable Clock Surface	9 $\frac{1}{2}$ " (241mm) x 2 $\frac{1}{2}$ " (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 I8SCH, neutral white finish
SEST-I8SC	Surface mount, straight enclosure for I8SCH, neutral white finish
FEST-I8SC	Flush mount straight enclosure for I8SCH, reclaimed powder coat finish

Architect & Engineer Specifications

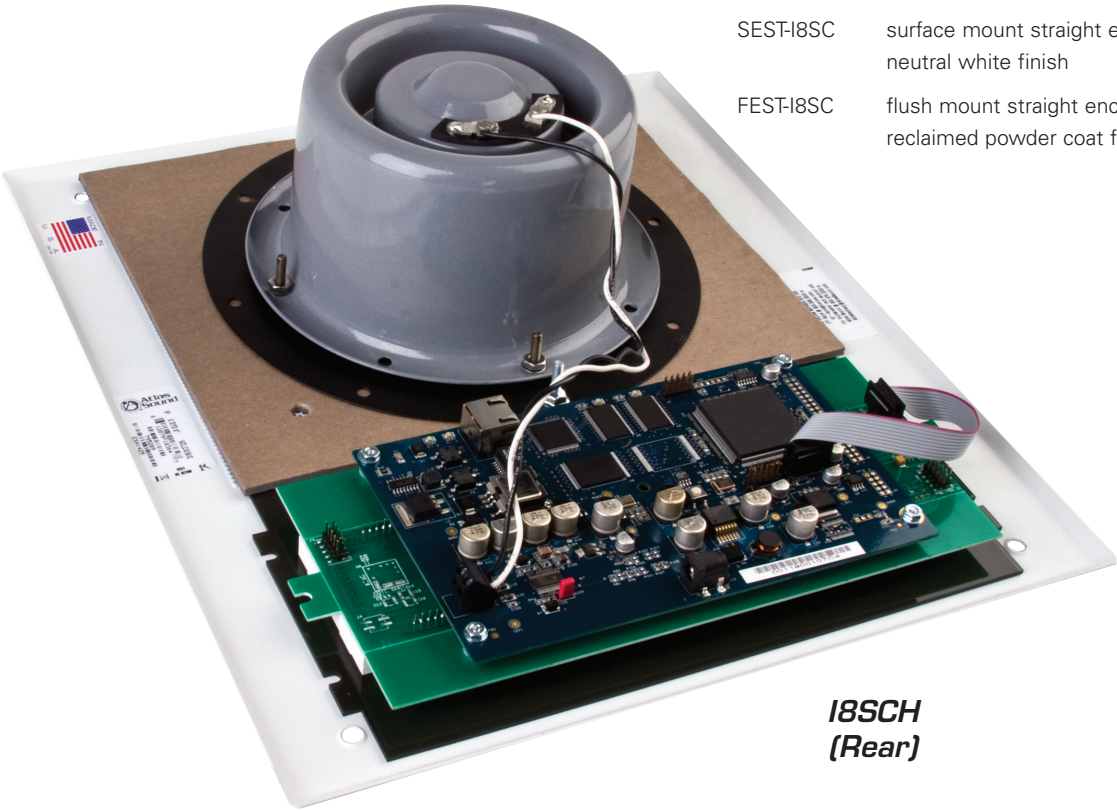
Unit shall be Atlas Sound Model I8SCH. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, LED clock, and metal baffle. Loudspeaker shall be Atlas Sound Model APF-15.

Audio power capability shall be 15 Watts continuous. Frequency response shall be 600Hz – 14kHz (nominal), 700Hz – 5.5kHz (±6dB). Sound pressure level shall be 104dB (1W/1M). Sound dispersion angle shall be 95°. Loudspeaker mounting shall be made via eight 3/16" (4.76mm) evenly spaced holes.

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 9½" (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 I8SCH neutral white finish
SEST-I8SC	surface mount straight enclosure for I8SCH neutral white finish
FEST-I8SC	flush mount straight enclosure for I8SCH reclaimed powder coat finish.



I8SCH
(Rear)