



# I8SCM-CK

## IP Compliant Clock / Loudspeaker System



**I8SCM-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
- Network Controlled, High Visibility Red LED Clock

### General Description

Model I8SCM-CK 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 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 I8SCM-CK 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. An omni directional subminiature (1/4" / 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 <sup>1</sup> | 86Hz – 8kHz (±5dB)                       |
| Dispersion <sup>2</sup>         | 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                        | 8 1/8" (206mm)                           |
| Depth                           | 2 7/8" (73mm)                            |
| Mounting Dimensions             | 7 5/8" (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        | 1/4" (6mm)                                       |

### Clock Specifications

|                        |                                |
|------------------------|--------------------------------|
| Display                | 32x8 LED Dot Matrix            |
| LEDs Per Character     | 40                             |
| Character Height       | 2 1/2" (64mm)                  |
| Character Width        | 1 1/4" (32mm)                  |
| Viewable Clock Surface | 9 1/2" (241mm) x 2 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          |

### GPI Specifications

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

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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 Accessible 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 I8SCM-CK, neutral white finish
- SEST-I8SC Surface mount, straight enclosure for I8SCM-CK, neutral white finish
- FEST-I8SC Flush mount straight enclosure for I8SCM-CK, reclaimed powder coat finish

## Architect & Engineer Specifications

Unit shall be Atlas Sound Model I8SCM-CK. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier / control, LED clock, microphone, 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 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. A subminiature (¼" / 6mm), electret condenser microphone shall be mounted behind the perforated steel material adjacent to the loudspeaker locations to allow 2-way communication and/or monitoring from the loudspeaker location to any PC or IP phone in the system. 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 9⅞" (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 I8SCM-CK neutral white finish
- SEST-I8SC surface mount straight enclosure for I8SCM-CK neutral white finish
- FEST-I8SC flush mount straight enclosure for I8SCM-CK reclaimed powder coat finish.



**I8SCM-CK  
(Rear)**