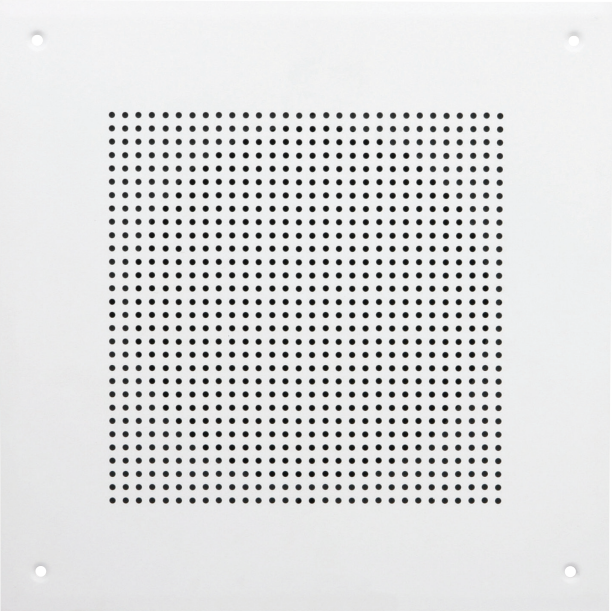
I8S+

PoE+ Indoor IP Loudspeaker



Features

Network Features
- Dynamic or Static IP Address
- IEEE802.3 10/100Base-T Ethernet
- IEEE 802.1q Tagging
- IEEE 802.3AT Compliant

VoIP Standard Audio
- G.711 u-law/a-law (64 kbit/s)
- G.722 Wideband Audio (64 kbit/s)

Auto Provisioning
- DHCP Option 66, 150, or TFTP Server
- DHCP Option 72 for HTTP Server

Auto Registration
- SLP for InformaCast
- DHCP Option 72 for SA-Announce or GCK

Static Configuration
- HTTP GUI for Static Configuration
- Cisco SRST

Audio Features
- Integrated Amplifier
  - 15-Watt Total Power
  - Primary Speaker Output 8Ω
- Aux Audio Line-In Unbalanced (2.8Vpp 10K)
- Aux Audio Line-Out Unbalanced (2.8Vpp 10K)

Additional Features
- 2 General Purpose Inputs
- 1 Relay Output (2A @ 30 VDC)
- Phone/Night Loud Ringer
- External Power Supply Option

General Description

AtlasIED I8S+ is an indoor wall / ceiling mount IP loudspeaker. It leverages VoIP communication to extend tele-presence with enhanced audio for environments where network-wide communication is desired and high-output loudspeakers are required to overcome high ambient noise and/or large spaces.

Applications

AtlasIED I8S+ registers as a communication endpoint directly within InformaCast, GCK, and SA-Announce advanced notification applications, supporting audio broadcast to enhance physical security while improving day-to-day communications through advanced alerting, bell schedules, pre-recorded & scheduled announcements, while leveraging the WAN or LAN network architecture.

When used within a Cisco environment, the I8S+ loudspeakers can join Cisco's Unified Survivable Remote Site Telephony (SRST) as a supported device. Cisco's SRST provides remote location call-processing redundancy when access to the centralized Cisco Unified Communications Manager is interrupted because of a WAN outage.

The ability of LAN communication between any combination of phones and loudspeakers is particularly critical during an emergency (which may be the actual cause of the WAN outage).

Where 3rd party notification applications are not required, the I8S+ loudspeakers can register as SIP devices directly to a SIP server or VoIP Communications Manager for critical alerts and public address applications.

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System	
Type	PoE+ Indoor IP Loudspeaker System
Operation Mode	Self Powered
Indicators	Network Status (On Back)
Operating Range (-10db)	70Hz - 15.5kHz
Frequency Response (+/- 5dB)	86Hz - 15.5kHz
Vertical Coverage	105° 800Hz - 4kHz
Horizontal Coverage	105° 800Hz - 4kHz
Directivity Factor (Q)	4.7 @ 2 kHz
Max SPL at 1 m (passive)	106 dB SPL Continuous / 109 dB SPL Peak
Recommended Signal Processing	Built-In Processing
General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
Transducers	
Transducer Qty and Size	8"
Voice Coil Size	1"
Cone Material	Curvelinear, Treated Industrial Paper
Driver Protection	Built-In Limiter
Amplification	
Type	Single-Channel Class D Topology
AC Power Input	PoE or PoE+ and External 24VDC
Power Rating (RMS)	15 Watts Max (802.3AT)
THD	<.02%
Cooling	Passive/Convection
Audio Inputs and Outputs	
Input: Analog Audio Type(s)	One Unbalanced Analog
Input: Analog Connectivity	Secured Screw Terminal Block
Input: Network Audio Type(s)	G.711 U-Law/A-Law and G.722 Capable
Input: Network Connectivity	RJ-45 Female
Output: Analog Audio Type(s)	One Unbalance Line Level
Output: Analog Connectivity	Secured Screw Terminal Block
Output: Digital Audio Type(s)	N/A
Output: Digital Connectivity	N/A
Output: Loudspeaker Level	8Ω, 9W (802.3AF), 15W (802.3AT)
Output: Loudspeaker Connectivity	Two x Secured Screw Terminal Block
Software	
SA-Announce Compatible Versions	9.0.18+
InformaCast Compatible Version	8.0+
GCK Compatible Version	3.0+
Network	
Ethernet	IEEE802.3 10/100Base-T
PoE	IEEE802.3AF/AT Compliant
VLAN	IEEE802.1q Tagging
Protocols	
IP Addressing	DHCP/Static
Auto-Provisioning	HTTP/TFTP
Auto-Registration	HTTP/Service Location Protocol/IEDNet
Time	NTP
Telephony	SIP

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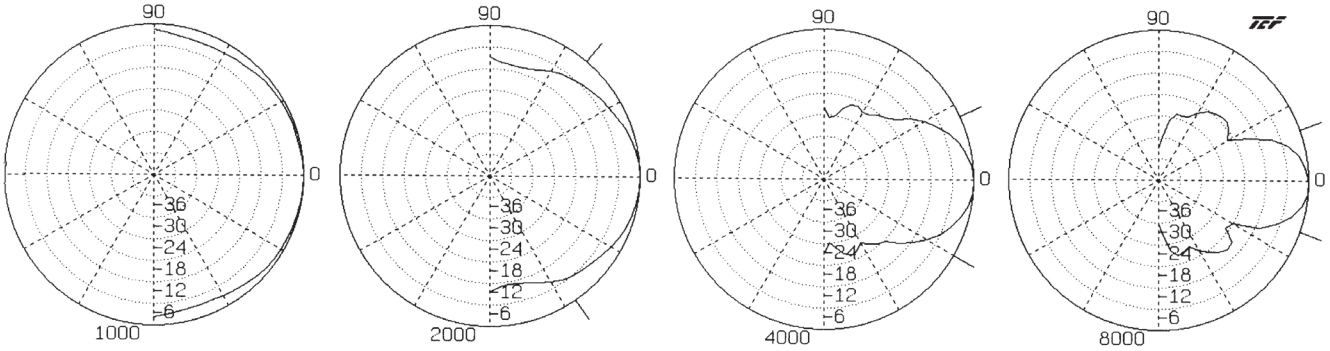
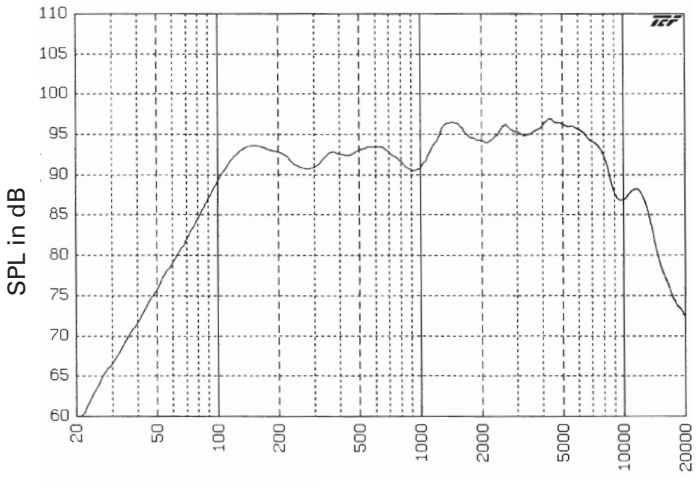
Enclosure	
Color	White (RAL 9010)
Grille Material	Powder Coated Steel, White Finish, Paintable
Baffle Material	18-gauge Corrosion-Resistant Zinc Plated Steel
Mounting/Rigging Provisions	Mounting Enclosure is Not Included (See Optional Enclosure)
Safety Agency Ratings	ETL Listed to Comply with UL-60950-1, and CAN/CSA-C22.2 No. 60950-1
Ingress Protection	IP-30
Logo	Blue and Removable
Product Dimensions (HxWxD)	11.5" (292mm) x 11.5"" (292mm) x 2.84" (72.14mm)
Shipping Dimensions (HxWxD)	12.37" (314mm) 12.37" (314mm) x 5" (127mm)
Net Weight - lbs	3.6 lbs (1.63kg)
Shipping Weight - lbs	4.8 lbs (2.2kg)
Warranty Coverage	
Warranty Period	1 year

NOTES:
1. Sensitivity: Half space pink noise measurement at 6 ft (1.8 m) at 20% power; extrapolated to 1 meter and an input of 2.83 volts RMS.
2. Watts: All wattage figures are calculated using the rated nominal impedance.
3. Frequency response and sensitivity are half-space measurements.

Polars (Normalized to Zero on Axis) (-6dB)

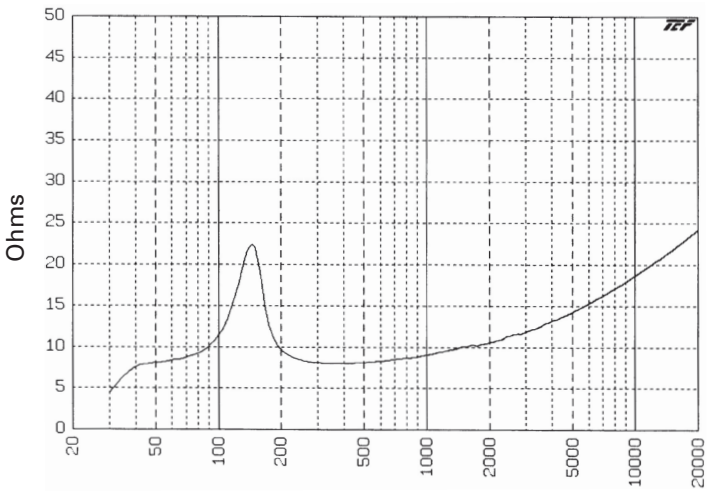


Frequency Response



Frequency (Hz)

Impedance



Frequency (Hz) Octave Smoothing = 30.0%

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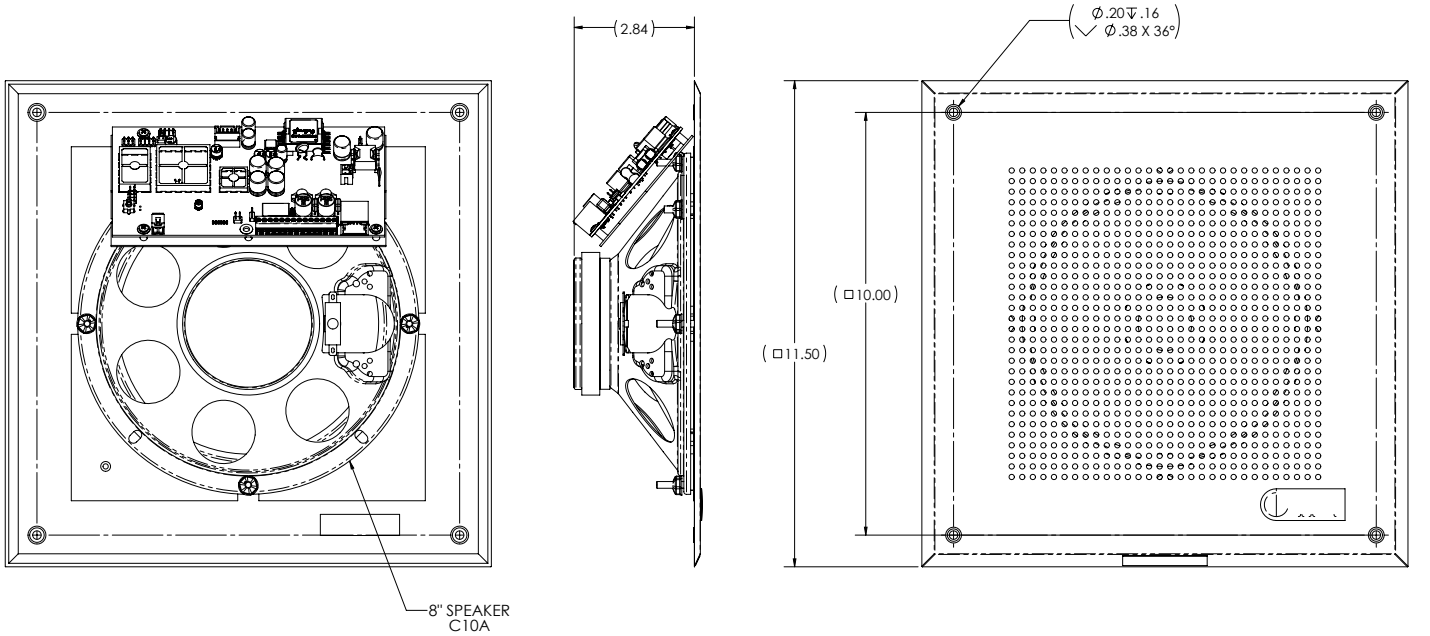
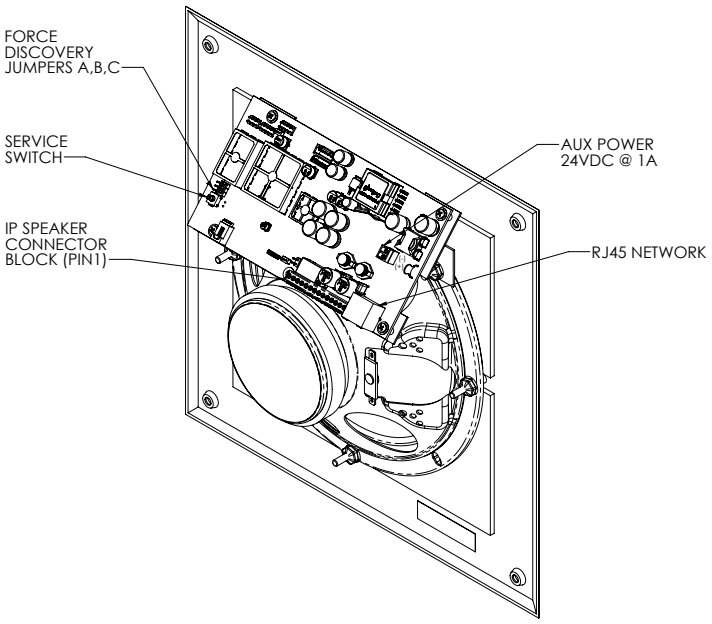
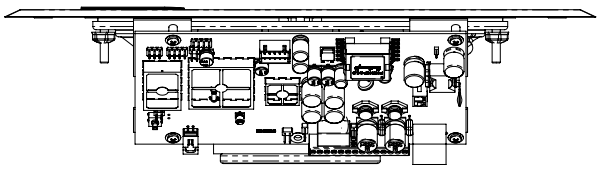
Dimensional Drawings



IP SPEAKER CONNECTOR BLOCK	
PIN	FUNCTION
1	REMOTE BUTTON / GPI 2 (+)
2	REMOTE BUTTON / GPI 2 (-)
3	REMOTE BUTTON / GPI 1 (+)
4	REMOTE BUTTON / GPI 1 (-)
5	RELAY (-)
6	RELAY - NORMALLY OPEN (+)
7	LINE-IN (-)
8	LINE-IN (+)
9	LINE-OUT (-)
10	LINE-OUT (+)
11	PRIMARY SPEAKER (-)
12	PRIMARY SPEAKER (+)
13	SECONDARY SPEAKER (-)
14	SECONDARY SPEAKER (+)





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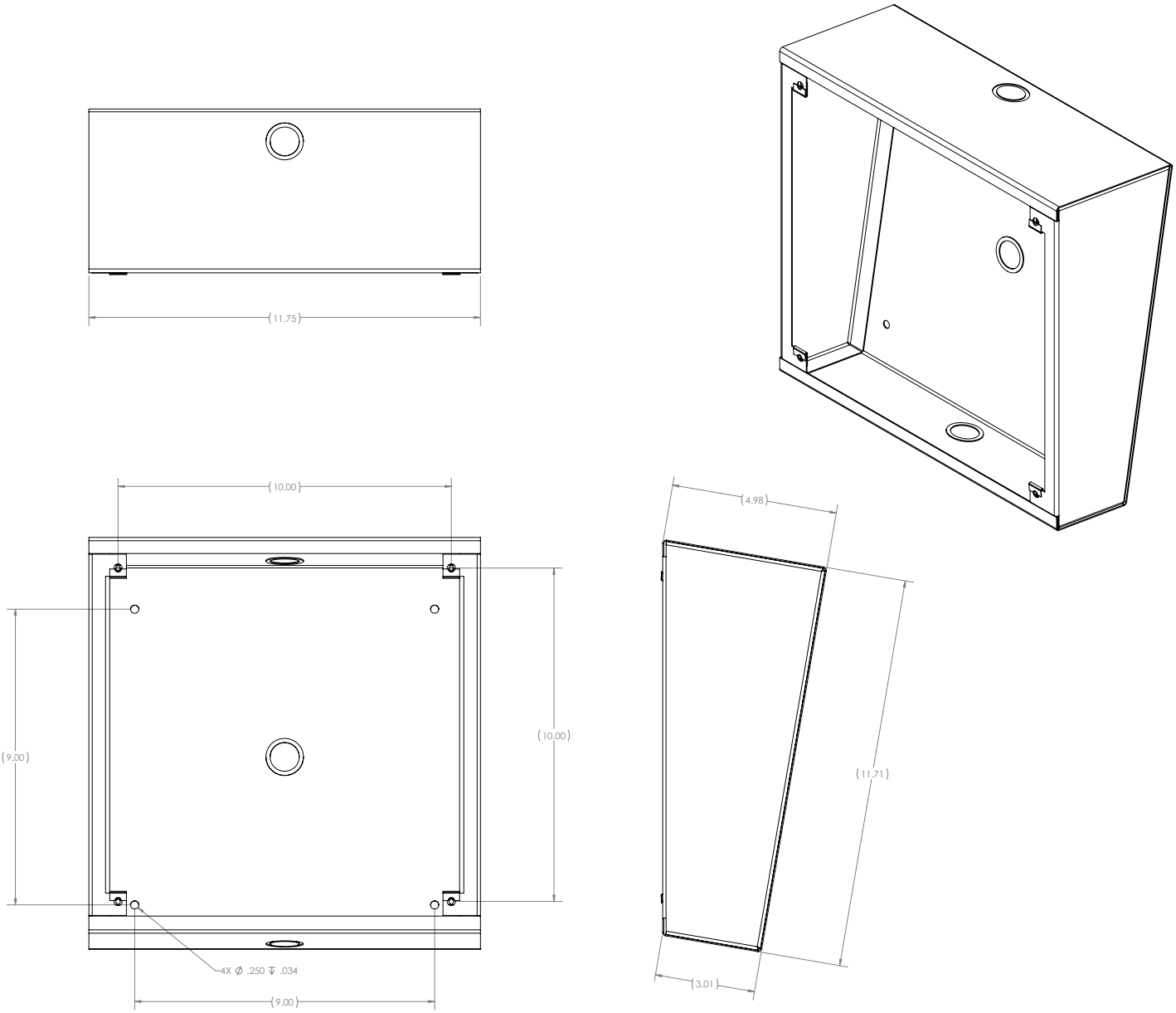
Optional Accessories

SEA-I8S



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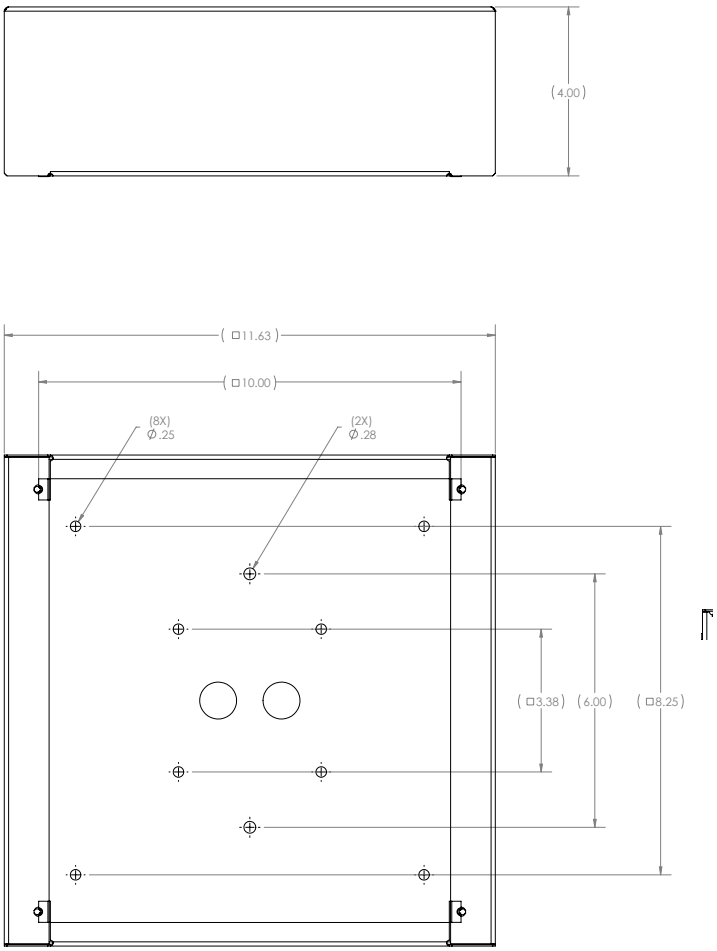
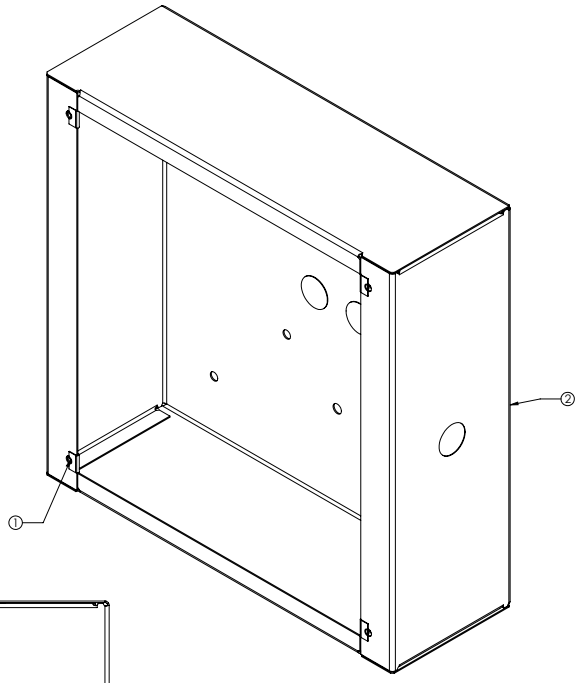
Optional Accessories

SEST-I8S





BILL OF MATERIALS

ITEM NO.	PART NUMBER	REV	QTY	DESCRIPTION
1	114863	F	4	NUT, 8-32 J-NUT SS
2	387042	E	1	ENCL SQ 11.62 X 11.62 X 4
3	490919		1	LABEL, 1X1 MADE IN USA

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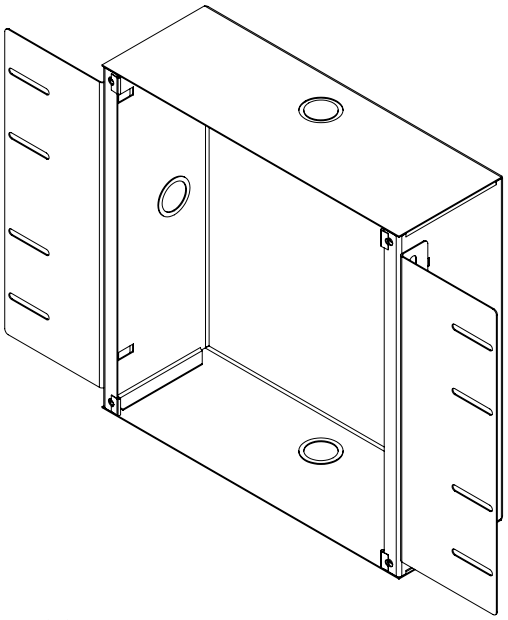
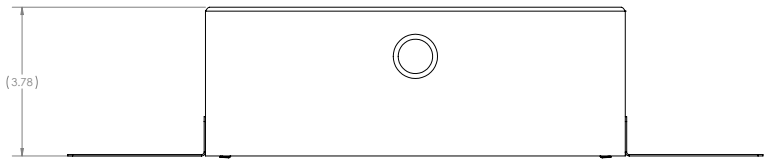
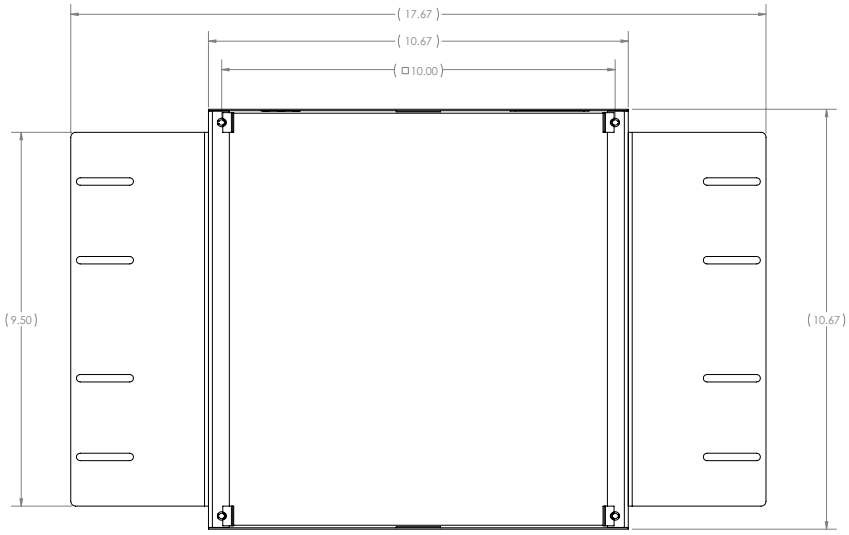
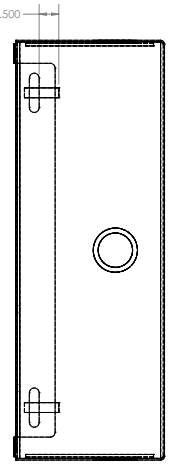
Optional Accessories

FEST-I8S









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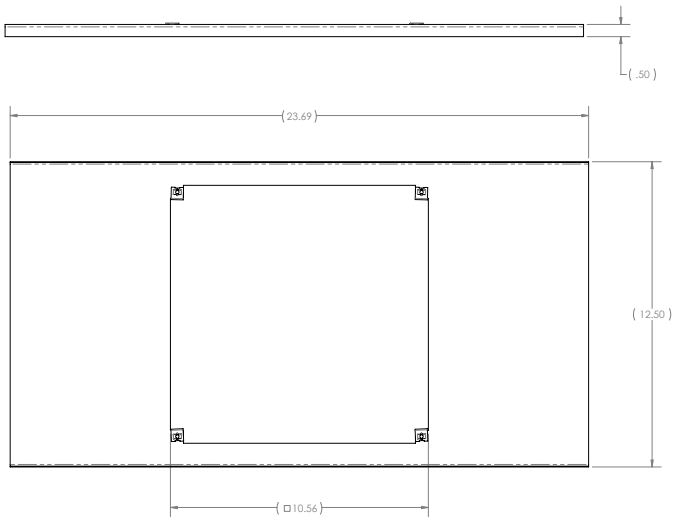
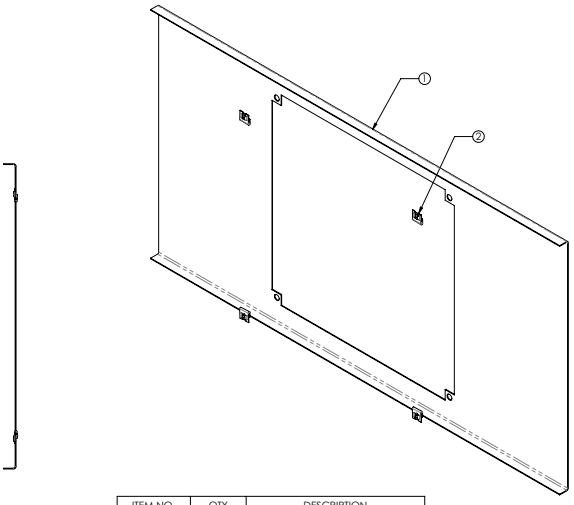
I8S-TB





ITEM NO.	QTY	DESCRIPTION
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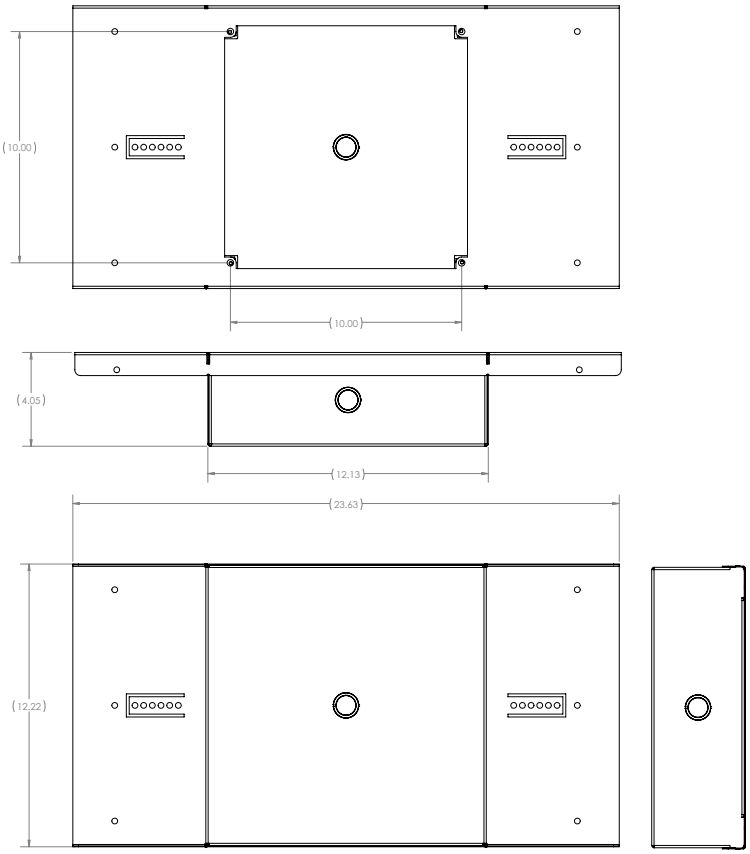
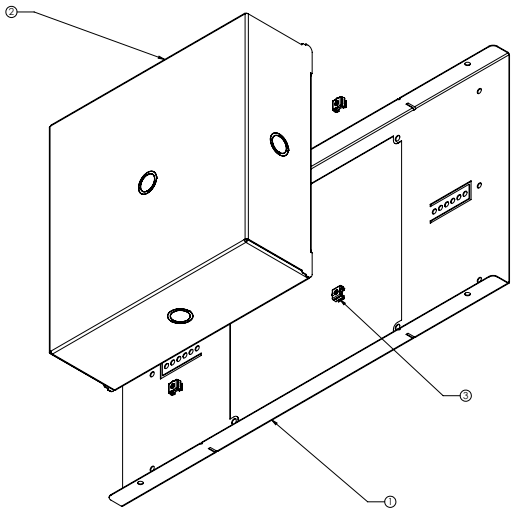
2	4	NUT, 8-32 J-NUT SS

I8S-TBE





BILL OF MATERIALS

ITEM NO.	PART NUMBER	REV	QTY	DESCRIPTION
1	493792	A	1	TILE BRIDGE,I8S-TBE
2	493786	A	1	ENCLOSURE,I8S-TBE
3	113336	A	4	NUT, 8-32 BASKET NUT

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Architect and Engineer Specifications

The unit shall be AtlasIED model I8S+. The loudspeaker system shall include factory assembled loudspeaker, IP addressable PCB amplifier/control and metal baffle. The loudspeaker shall be an 8" driver with a 10oz (260g) ceramic magnet and seamless cone. The impedance shall be 8 ohm and a voice coil diameter of 1" (25mm). The loudspeaker dispersion shall be 105° (800Hz - 4kHz) and frequency response of 86Hz – 15.5kHz (±5dB). The max peak output at 1W/1m shall be 98dB SPL.

The amplifier/control board shall be capable of producing 15-watts RMS when using an IEEE 802.3at compatible PoE+ switch or 24VDC local power supply and 9-watts RMS when used with an IEEE 802.3af compliant PoE switch. Interconnect shall be via female RJ-45 connector mounted to the PCB.

All control functionality shall be determined via software. The metal loudspeaker baffle overall dimensions shall be 11.5" (292mm) x 11.5" (292mm) x 2.84" (72.14mm). Finish shall be neutral white electrostatic powder coat.

Optional enclosures shall include:

SEA-I8S	surface mount angled enclosure for I8S+ neutral white finish
SEST-I8S	surface mount straight enclosure for I8S+ neutral white finish
FEST-I8S	flush mount straight enclosure for I8S+ reclaimed powder coat finish

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