

IP-SDFMLED

PoE+ Indoor IP Endpoint with Speaker, LED Display, Microphone, and LED Flasher



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, for TFTP Server
- DHCP Option 72 for HTTP Server

Auto Registration

- SLP for InformaCast
- DHCP Option 72 for SA-Announce

Static Configuration

• HTTP GUI for Static Configuration

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
- Cisco SRST
- 1 Relay Output (2A @ 30 VDC)
- Phone/Night Loud Ringer
- External Power Supply Option
- LED Display for Clock
- Front Panel LED Flashers Allow for ADA Compliance
- Integrated Microphone Allows for Half-Duplex or Full-Duplex Paging Based on Software Platform Used

General Description

AtlasIED IP-SDFMLED is an indoor wall mount IP endpoint speaker with integrated talkback microphone, LED display and LED flasher. It leverages VoIP communication to extend tele-presence with enhanced audio for environments where network-wide communication is desired and high-output speakers are required to overcome high ambient noise and/or large spaces.

Applications

AtlasIED IP-SDFMLED 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 IP-SDFMLED speakers 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 speakers 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 IP-SDFMLED speakers can register as SIP devices directly to a SIP server or VoIP Communications Manager for critical alerts, intercom and public address applications.

Under Title II of the ADA, all state and local governments are required to take steps and ensure effective communication to people with disabilities. The AtlasIED IP-SDFMLED IP speakers with talkback microphone, LED display and LED flasher provide effective communication for all individuals.



System Per Indoor IP Speaker System with LCD Display, Microphone and LED Fasher Indocators Network Status KOn Book Processing Prescribe (r-F-b88) 88Hz - 18-36Hz Vertical Coverage 109F-80 Mtz - 14 Hz Hordbrack (CO) 17 82 Mtz Max SPL st 1 in (passive) 100F-80 Mtz - 14 Hz Max SPL st 1 in (passive) 120 dB SPL Continuous / 123 dB SPL (pask 8 chm) General Physics Interface Two Tringger Injusts / One Relay Output CA & 30 V/SC) Tamenducer 8 of 200mm LF Transducer City and Size 8 of 200mm HF Transducer Only and Size 9 of 200mm HF Transducer City and Size 9 of 200mm HF Transducer City and Size 10 of 20mm HF Transducer City and Size 10 of 20mm HF Crossover Frequency 2 280ths, First Order Vote Coll Size 1 of 20mm Diver Transducer 2 current College Vote Coll Size 1 of 20ths Order Band Diverticity Factor City 8 divertice Coverage Diverticity Factor City 8 divertice Coverage Diverticity Factor City 8 divertice Coverage Divertici		
Network Status Ch. Baord Frequency Response 145-58	System	
Precuency Response (4/- 5d8)	Туре	PoE+ Indoor IP Speaker System with LCD Display, Microphone and LED Flasher
Noticeal Coverage	Indicators	Network Status (On Back)
Horizontal Coverage	Frequency Response (+/- 5dB)	86Hz - 15.5kHz
Descriving Pactor (IO)	Vertical Coverage	105° 800 Hz - 4 kHz
Max SPL at 1 m (passive) 120 dB SPL Continuous / 123 dB SPL (peak 6 chm)	Horizontal Coverage	105° 800 Hz - 4 kHz
Transducera Transducera	Directivity Factor (Q)	17 @ 2 kHz
Finanducer (by and Size Ef Cookman IF Transducer (Dy and Size B* (Cookman) IF Transducer (Dy and Size 3° (Remin) IF Crossover Frequency 2 800Hz, First Order Voice Of Size 1° (Brimn) Cross Material Curvalinant, Teared Industrial Paper Driver Protection Built-in Limiter Vertical Coverage 120° 24th Cotave Band Informatial Coverage 120° 24th Cotave Band Directivity Fector (D) 8° 8 db St. Dendiruous / 100 db SPL Peak Max SPL at 1 m (Passive) 8° 8 db SPL Condinuous / 100 db SPL Peak Max SPL at 1 m (Passive) 8° 6 db Se and Steemal 24VDC Power Pathing Po Ge re Pear and Steemal 24VDC Power Pathing (PMS) 12 Vents Max (802 3AF) / 25 Watts Max (802 3AF) FIFD 40.2% Cooling Passive/ Convection Microphon V Sensitivity Minus 36 (4 db) / 100 b = 1 V/ss. 1 Wt/2 Impectivity Omnidirections Frequency Range 20 Hz – 20 Hz Standard Operation Voltage 10 V Current Consumption Max 0.5 mA	Max SPL at 1 m (passive)	120 dB SPL Continuous / 123 dB SPL (peak 6 ohm)
FT Transducer City and Size \$ 100mm FT Transducer City and Size \$ 10mm FT Crossover Frequency 2,800tz, First Order Voice Coll Size 1125mm Cone Material Curvelinear, Treated Industrial Paper Driver Protection Builth Limiter Vertical Coverage: 120° 24th Cotave Band Horistant Coverage: 120° 24th Cotave Band Horistant Coverage: 120° 24th Cotave Band Briestivity Fector (IQ) 8 ° 2 4th 2 Max SPL at 1 m (Passave) 98 ° 85 PL continuous / 102 ° 85 PL Peak Amplification	General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
HF Transducer City and Size	Transducers	
HF Crossover Frequency	LF Transducer Oty and Size	8" (203mm)
Voice Coil Size 1° (25mm) Cone Material Curvelinear, Treated Industrial Paper Driver Protection Built-In Linter Vertical Coverage: 120° 2kHz Octave Band Horizontal Coverage: 120° 2kHz Octave Band Directivity Factor (O) 8 © 2 kHz Max SPI at 1 m Pressive) 98 ds SPL continuous / 102 ds SPL Peak Amplification 7 Type Single-Channel Cless D Topology with Primary and Secondary Outputs AC Power Input Pee or PeEr and External 24VDC Power Raing (RMS) 12 Watts Max (802 3AF) / 25 Watts Max (802 3AT) THD <0.2%	HF Transducer Qty and Size	3" (76mm)
Cone Material Curvelinear, Treated Industrial Paper Driver Protection Bullish Limiter Vertical Coverage: 120° 2kHz Octave Band Horizontal Coverage: 120° 2kHz Octave Band Directivity Factor (O) 8 Ø 2 kHz Max SPL at 1 m (Passive) 8 Ø 2 kHz Max SPL at 1 m (Passive) 98 Ø 5 kHz Amplification V Type Single-Channel Class D Topology with Primary and Secondary Outputs AC Power Input P66 Or PoE+ and External 24VDC Power Rating (RMS) 12 Walts Max (802.3AF) / 25 Walts Max (802.3AT) THD <0.2 %	HF Crossover Frequency	2,800Hz, First Order
Driver Protection Built-In Limiter Vertical Coverage: 120° 24Hz Octave Band Directivity Factor (O) 8 ø 2 kHz Max SPL at 1 m (Passive) 98 dB SPL continuous / 102 dB SPL Peak Amplification ************************************	Voice Coil Size	1" (25mm)
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AC Power Input PoE or PoE+ and External 24VDC Power Rating (RMS) 12 Watts Max (802.3AF) / 25 Watts Max (802.3AT) THD <0.2% Cooling Passive / Convection Microphone Possivity Sensitivity Minus 35 (±4dB) / (0db = 1V/pa, 1kHz) Impedance Less than 2.2kΩ Directivity Omnidirectional Frequency Range 20Hz – 20kHz Standard Operation Voltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Network Audio Type(s) One Unbalanced Line Level Input: Network Connectivity Secured Screw Terminal Block Output: Network Connectivity One Unbalanced Line Level Output: Analog Outpe(s) One Unbalanced Line Level Output	Amplification	
Power Rating (RMS) 12 Watts Max (802.3AF) / 25 Watts Max (802.3AT) THD <0.2%	Туре	Single-Channel Class D Topology with Primary and Secondary Outputs
THD	AC Power Input	PoE or PoE+ and External 24VDC
Cooling Passive / Convection Microphone Minus 35 (±4dB) / (0db = 1V/pa, 1kHz) Sensitivity Minus 35 (±4dB) / (0db = 1V/pa, 1kHz) Impedance Less than 2.2kΩ Directivity Omnidirectional Frequency Range 20Hz − 20kHz Standard Operation Voltage 2V Max. Operation Voltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs 4 Input: Analog Audio Type(s) One Unbalanced Line Level Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Audio Type(s) G.711 U-La	Power Rating (RMS)	12 Watts Max (802.3AF) / 25 Watts Max (802.3AT)
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Sensitivity Minus 35 (±4dB) / (0db = 1V/pa, 1kHz) Impedance Less than 2.2kΩ Directivity Omnidirectional Frequency Range 20Hz – 20kHz Standard Operation Voltage 10V Max. Operation Woltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Analog Connectivity Secured Screw Terminal Block Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Q, 12W (802.3AF), 25W (802.3AT)	Cooling	Passive / Convection
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Directivity Omnidirectional Frequency Range 20Hz – 20kHz Standard Operation Voltage 2V Max. Operation Voltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Analog Connectivity Secured Screw Terminal Block Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity RJ-45 female Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Sensitivity	Minus 35 (±4dB) / (0db = 1V/pa, 1kHz)
Frequency Range 20Hz – 20kHz Standard Operation Voltage 10V Max. Operation Voltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity RJ-45 female Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity RJ-45 female Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 80, 12W (802.3AF), 25W (802.3AT)	Impedance	Less than 2.2kΩ
Standard Operation Voltage 2V Max. Operation Voltage 10V Current Consumption Max. 0.5 mA Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity RJ-45 female Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity RJ-45 female Output: Analog Connectivity Secured Screw Terminal Block Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Directivity	Omnidirectional
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Current Consumption Max. Sensitivity Reduction Within Minus 3dB @ 1.5V S/N Ratio More than 62dB Audio Inputs and Outputs Input: Analog Audio Type(s) One Unbalanced Line Level Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Analog Audio Type(s) Output: Analog Audio Type(s) One Unbalanced Line Level Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Audio Type(s) One Unbalanced Line Level Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Standard Operation Voltage	2V
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Audio Inputs and OutputsInput: Analog Audio Type(s)One Unbalanced Line LevelInput: Analog ConnectivitySecured Screw Terminal BlockInput: Network Audio Type(s)G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNetInput: Network ConnectivityRJ-45 femaleOutput: Analog Audio Type(s)One Unbalanced Line LevelOutput: Analog ConnectivitySecured Screw Terminal BlockOutput: Digital Audio Type(s)G.711 U-Law/A-Law and G.722 Capable (Multicast)Output: Digital ConnectivityN/AOutput: Speaker Level8Ω, 12W (802.3AF), 25W (802.3AT)	Sensitivity Reduction Within	Minus 3dB @ 1.5V
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Input: Network Audio Type(s) G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Input: Analog Audio Type(s)	One Unbalanced Line Level
Input: Network Connectivity RJ-45 female Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Input: Analog Connectivity	Secured Screw Terminal Block
Output: Analog Audio Type(s) One Unbalanced Line Level Output: Analog Connectivity Secured Screw Terminal Block Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Input: Network Audio Type(s)	G.711 U-Law/A-Law and G.722 Capable / Dante and CobraNet
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Output: Digital Audio Type(s) G.711 U-Law/A-Law and G.722 Capable (Multicast) Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Output: Analog Audio Type(s)	One Unbalanced Line Level
Output: Digital Connectivity N/A Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Output: Analog Connectivity	Secured Screw Terminal Block
Output: Speaker Level 8Ω, 12W (802.3AF), 25W (802.3AT)	Output: Digital Audio Type(s)	G.711 U-Law/A-Law and G.722 Capable (Multicast)
	Output: Digital Connectivity	N/A
Output: Speaker Connectivity Primary and Slave Secured Screw Terminal Block	Output: Speaker Level	8Ω, 12W (802.3AF), 25W (802.3AT)
	Output: Speaker Connectivity	Primary and Slave Secured Screw Terminal Block

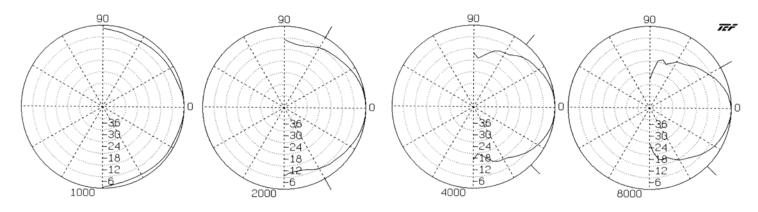
Display	
Display Type	LED Display
Display Color Range	Red Only
Display Color Hange Display Lumens	162lux
LED's Per Character	16 X 64
Character Max Height	2.125" (54mm)
Viewable Dimensions (H x W)	10.125" (257mm) x 2.5625" (65mm)
Control	Time via NTP - Text Controlled via Software
Flasher	Time via NTP - Text Controlled via Software
Flasher Type	LED
Flash Color Range	Red, Green, Blue, White, Purple, Orange, & Yellow
Flasher Illuminance (lux)	83 Red, 545 Green, 90 Blue, 570 White
Flash Rate(s)	
	Multi Speed Capable
Viewable Dimensions (HxW)	.5" (12mm) x 3.5" (89mm) Controlled via Software
Control Software	Controlled via Software
GCK Compatible Version	20.
'	3.0+
InformaCast Advanced Compatible Version	8.0+
InformaCast Fusion Compatible Version	3.0+
SA-Announce Compatible Versions	9.0.18+
Network	1555000 0 40400D T
Ethernet	IEEE802.3 10/100Base-T
PoE	IEEE802.3AF/AT Compliant
VLAN	IEEE802.1q Tagging
Protocols	D1100/01 15
IP Addressing	DHCP/Static
Auto-Provisioning	НТТР/ТЕТР
Auto-Registration	HTTP/Service Location Protocol/IEDNet
Time	NTP or Host Server
Telephony	SIP
Enclosure	
Color	White
Grille Material	Powder Coated Steel
Baffle Material	Plastic
Mounting/Rigging Provisions	4 x Screws
Safety Agency Ratings	ETL Listed to Comply with UL62638
Ingress Protection	NA NA
Logo	One Color Print
Product Dimensions (HxWxD)	14.37 (365mm) x 12.87" (326.9mm) x 5.5" (139.7mm)
Shipping Dimensions (HxWxD)	15.5" (393.7mm) x 13.9" (353.06mm) x 5.5" (139.7mm)
Net Weight - lbs	TBA
Shipping Weight - lbs	TBA
Warranty Coverage	
Warranty Period	1 Year

NOTES:

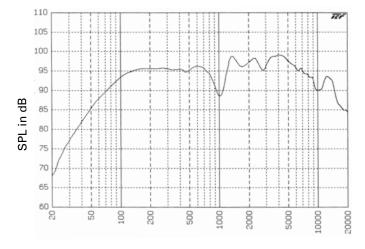
- 1. Sensitivity: Half space pink noise measurement at 6 ft (1.8 m) at 20% power; extrapolated to 1 meter and an input of 2.83 volts RMS.
- 2. Watts: All wattage figures are calculated using the rated nominal impedance.
- $3. \ \mbox{Frequency}$ response and sensitivity are half-space measurements.



Polars Are Normalized To Zero On Axis (-6dB)

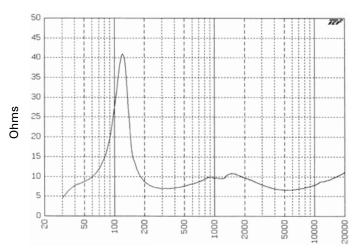


Frequency Response



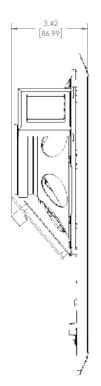
Frequency (Hz)

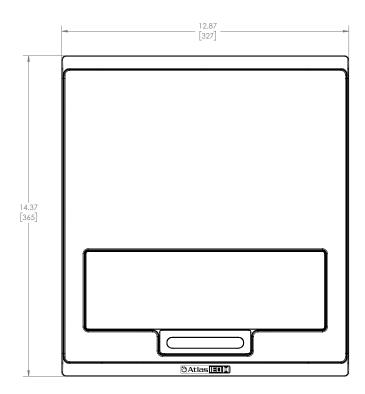
Impedance

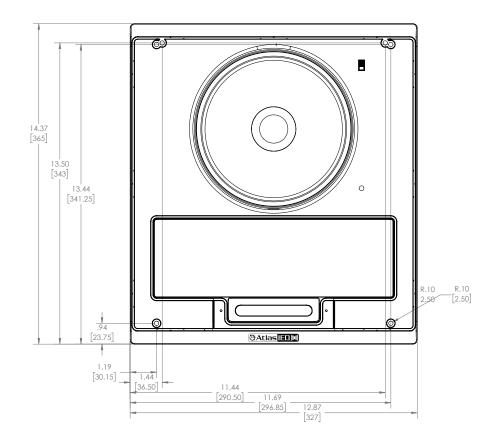


Frequency (Hz) Octave Smoothing = 30.0%

Dimensional Drawings

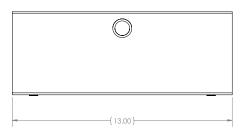


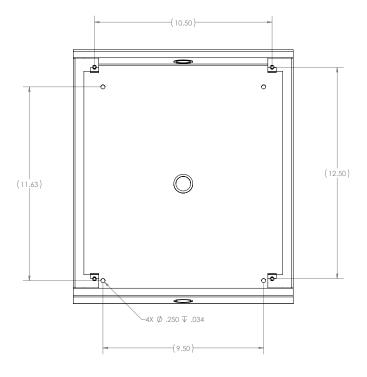


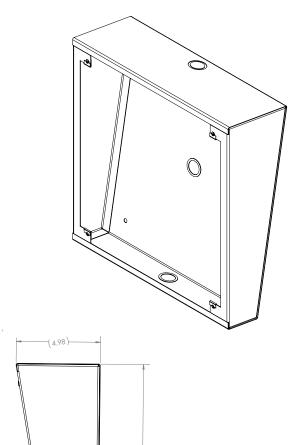


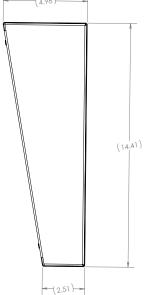
TELEPHONE: (800) 876-3333 FAX (800) 765-3435

Optional Accessories IP-SEA-SD

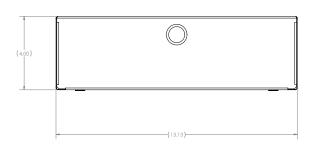


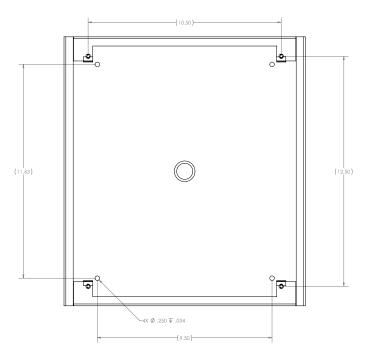


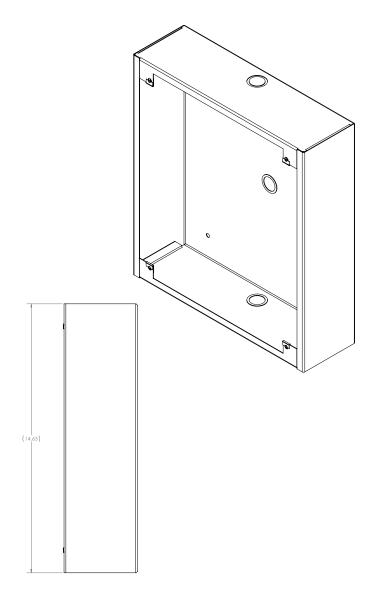




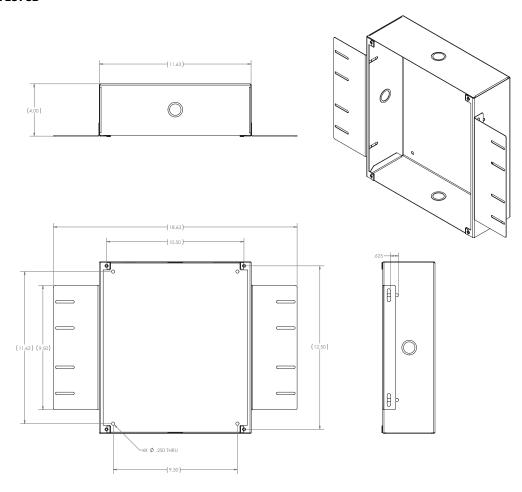
Optional Accessories IP-SEST-SD







Optional Accessories IP-FEST-SD



TELEPHONE: (800) 876-3333 FAX (800) 765-3435



Architect and Engineer Specifications

The unit shall be AtlasIED model IP-SDFMLED. The speaker system shall include factory assembled speaker, IP addressable PCB amplifier/control, metal baffle, integrated microphone, LED display and LED flasher. The speaker 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 speaker 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.

The unit shall incorporate an integrated microphone to allow full duplex talkback communication functionality based upon chosen software

The unit shall incorporate a LED display with viewable dimensions of 10.125" (2577mm) wide x 2.56" (65mm) high. The LEDs per character shall be 16 high x 64 wide and character max height of 2.125" (54mm). It shall produce the color red and be controlled by Time via NTP. The display shall produce 162 lux brightness and display text and/or time.

The unit shall incorporate a LED flasher with viewable dimensions of .5" (12mm) height x 3.5" (89mm) wide. The LEDs shall be able to produce RGB color spectrum with brightness of 310-lux (Red), 348-lux (Green), 352-lux (Blue). It shall have the capability of multi-speed flash rate and will be software controllable.

All control functionality shall be determined via software. The metal speaker baffle overall dimensions shall be 14.38" (365mm) x 12.88" (327mm) x 2.77" (70.36mm) HxWxD. Finish shall be neutral white electrostatic powder coat.

Optional enclosures shall include:

IP-SEA-SD surface mount angled enclosure for IP-SDFMLED

neutral white finish

IP-SEST-SD surface mount straight enclosure for IP-SDFMLED

neutral white finish

IP-FEST-SD flush mount straight enclosure for IP-SDFMLED

reclaimed powder coat finish