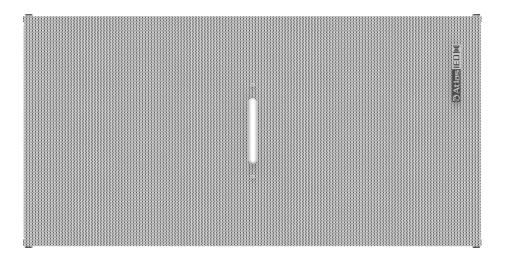


## IP-12SYSMF

PoE+ Indoor 1' x 2' Suspended Ceiling Mount IP Endpoint Speaker with Microphone and LED Flasher



## Features

#### **Network Features**

- Dynamic or Static IP Address
- IEEE 802.3 10/100Base-T Ethernet
- IEEE 802.1q Tagging
- IEEE 802.3af and 802.3at Compliant

#### Audio Codec Support

- G.711 u-law / a-law (16 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 Syn-Apps' Revolution or GCK

#### Static Configuration

- HTTP GUI for Static Configuration
- Cisco SRST

#### Audio Features

- Integrated Amplifier
- Aux Audio Line-In Balanced (2.8Vpp 10K)
- Aux Audio Line-Out Balanced (2.8Vpp 10K)

#### Additional Features

- 2 General Purpose Inputs
- 1 General Purpose Output (2A @ 30 VDC)
- Phone / Night Loud Ringer
- External Power Supply Option
- 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-12SYSMF is a 1' x 2' suspended ceiling mount IP endpoint speaker with integrated microphone and LED flasher. It compliments the Unified Communications (VoIP Communications) investment including on-premises and hosted infrastructure platforms so that information can be pushed to spaces beyond the world of desktop telephony communication and breaking any traditional audio-path barriers.

### Applications

AtlasIED IP-12SYSMF registers as a communication endpoint directly within InformaCast, GCK, and Syn-Apps' Revolution 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-12SYSMF 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-12SYSMF suspended ceiling mount speaker with integrated microphone can register as SIP devices directly to a SIP server or VoIP Communications Manager for critical alerts 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-12SYSMF speaker with talkback microphone and LED flasher provide effective communication for all individuals.

# Atlas IED.



System	
Туре	PoE+ Indoor 1' x 2' Suspended Ceiling Mount IP Endpoint Speaker with Microphone and LED Flasher
Indicators	Network Status (On Back)
Frequency Response (+/- 5dB)	86Hz - 15.5kHz
Vertical Coverage	105° (2kHz Octave Band, -6dB Points)
Horizontal Coverage	105° (2kHz Octave Band, -6dB Points)
Directivity Factor (Q)	17 @ 2 kHz
Max SPL at 1m (Passive)	110dB SPL Continuous
General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
Transducers	
LF Transducer Qty and Size	(1) 8" (203mm)
HF Transducer Qty and Size	(1) 3" (76mm)
HF Crossover Frequency	2,800Hz, First Order
Voice Coil Size	1" (25mm)
Cone Material	Curvelinear, Treated Industrial Paper
Sensitivity	98dB SPL Average
Amplification	
Туре	Single-Channel Class D Topology with Primary and Secondary Outputs
AC Power Input	PoE or PoE+ and External 24VDC
Power Rating (RMS)	12 Watts Max (802.3AF) / 25 Watts Max (802.3AT)
THD	<.02%
Cooling	Passive / Convection
Driver Protection	Built-In Limiter
Microphone	
Sensitivity	Minus 35 (±4dB) / (0db = 1V/pa, 1kHz)
Impedance	Less than 2.2k $\Omega$
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 Balanced Line Level
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 Balanced 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 Connectivity	Primary and Slave Secured Screw Terminal Block

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Flasher	
Flasher Type	LED
Flash Color Range	RGB
Flasher Illuminance (lux)	83 Red, 545 Green, 90 Blue, 570 White
Flash Rate(s)	Multi Speed Capable
Viewable Dimensions (HxW)	0.5" (13mm) x 3.5" (89mm)
Control	Controlled via Software
Software	
GCK Compatible Version	3.0+
InformaCast Advanced Compatible Version	8.0+
InformaCast Fusion Compatible Version	3.0+
SA-Announce Compatible Versions	9.0.18+
Network	
Ethernet	IEEE 802.3 10/100Base-T
PoE	IEEE 802.3 AF/AT Compliant
VLAN	IEEE 802.1q Tagging
Protocols	
IP Addressing	DHCP / Static
Auto-Provisioning	HTTP / TFTP
Auto-Registration	HTTP / Service Location Protocol / IEDNet
Time	NTP or Host Server
Telephony	SIP
Enclosure	
Color	White
Grille Material	Powder Coated Steel with 22-Gauge Perforated Steel
Baffle Material	19-Gauge Corrosion-Resistant Zinc Plated Steel
Mounting / Rigging Provisions	Lay-In Into a Reflected Ceiling Grid
Safety Agency Ratings	ETL Listed to Comply with 62368-1, CSA C22.2 #62368-1, IEC 62368-1 CB Scheme and FCC
Ingress Protection	N/A
Logo	Black and Silver
Product Dimensions (HxWxD)	4.89" x 23.67" x 11.94" (124mm x 601mm x 303mm)
Shipping Dimensions (HxWxD)	5" x 24.75" x 12" (127mm x 629mm x 305mm)
Net Weight - Ibs	10.71lb (4.86kg)
Shipping Weight - Ibs	13.15lb (5.96kg)
Warranty Coverage	
Warranty Period	1 Year

#### NOTES:

1. Sensitivity: Half space pink noise measurement at 6ft (1.8m) at 20% power; extrapolated to 1 meter and an input of 2.83 volts RMS.

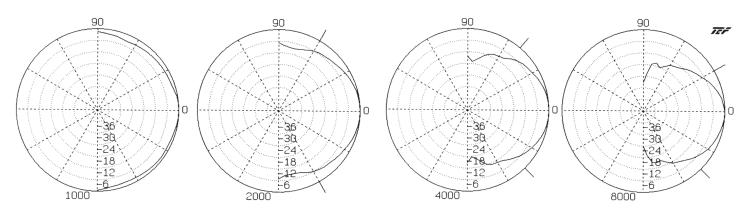
2. Watts: All wattage figures are calculated using the rated nominal impedance.

3. Frequency response and sensitivity are half-space measurements.









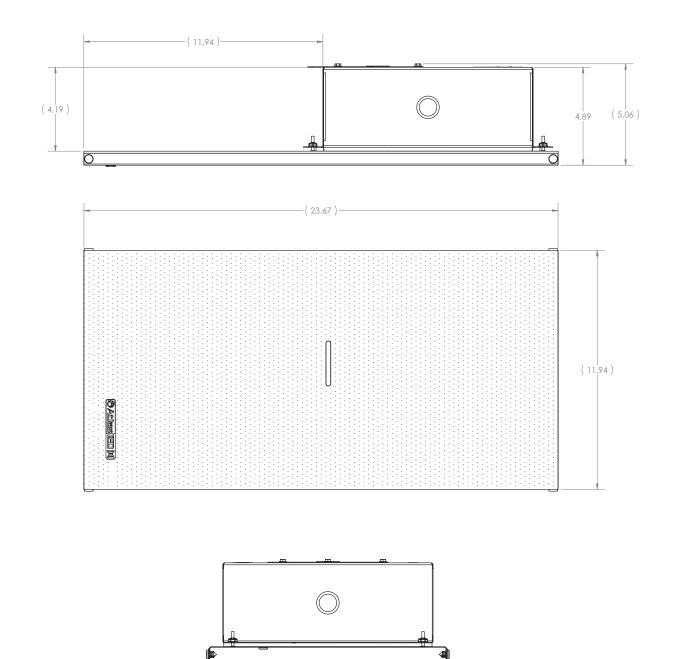
**Frequency Response** Impedance TEP SPL in dB Ohms 0 L 

Frequency (Hz)

Frequency (Hz) Octave Smoothing = 30.0%

TEP

### **Dimensional Drawings**



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#### Architect and Engineer Specifications

The unit shall be AtlasIED model IP-12SYSMF. The unit shall be AtlasIED model IP-12SYSMF. The PoE+ Indoor Ceiling Mount IP Endpoint Speaker System shall include factory assembled speaker, IP addressable PCB amplifier / control, steel perf baffle, multi-color LED flasher and integrated microphone.

The speaker shall be an 8" Coaxial driver with low-frequency reproducer cone shall be a full 8" (203mm) in diameter and the high frequency reproducer cone shall be 3" (76mm) in diameter. The woofer shall have a 10oz. (260g) ceramic magnet; the tweeter shall have a 2.35oz. (67g) ceramic magnet. The two reproducer sections shall be coupled through a built-in crossover network.

The crossover frequency shall be at 2800Hz. The speaker dispersion shall be 105° and frequency response range shall be 86Hz – 15.5kHz, (±5dB). Sensitivity shall be 98dB at 1 Watt/1 meter. Voice coil impedance shall be 8 $\Omega$ . Low frequency voice coil diameter shall be 1" (25mm) and operate in a magnet field of at least 10,600 gauss. The maximum depth of the loudspeaker shall not exceed 27/s" (73mm).

The amplifier / control board shall receive announcements and messages using dynamically routed data on a standard Ethernet Network. It shall include a Single-Channel Class D Topology amplifier with Primary and Secondary Outputs capable of producing 25-watts RMS when using an IEEE 802.3at compatible PoE+ switch or 24VDC local power supply and 12-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 amplifier / control board shall include (2) logic inputs, (1) relay output, (1) Auxiliary Balanced line level audio input and (1) Balanced line level audio output. The Auxiliary Line Level input shall include an auto mute function that is activated when a broadcast is sensed from the control application.

The amplifier / control board shall include a Graphical User Interface (GUI) for SIP configuration. The SIP implementation shall support standards G.711, G.722 and RTP protocols. The Graphical User Interface (GUI) shall configure and manage logic inputs, relay outputs, and Auxiliary audio input.

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

The unit shall incorporate a LED flasher with viewable dimensions of 0.5" (13mm) height x 3.5" (89mm) wide. The LEDs shall be able to produce RGB color spectrum with brightness of 83-lux (Red), 545-lux (Green), 90-lux (Blue), 570-lux (White). It shall have the capability of multi-speed flash rate and will be software controllable.

All control functionality shall be determined via software. It shall be compatible with AtlasIED's GCK, Syn-Apps' Revolution, Singlewire's InformaCast software platforms and SIP standalone operation. The PoE+ Indoor IP Endpoint Speaker System overall dimensions shall be 11.94" (303mm) x 23.6" (601mm) x 4.89" (124mm). Finish shall be neutral white electrostatic powder coat micro perforated grille.