

IP-PM8GD

PoE+ INDOOR PENDANT MOUNT IP ENDPOINT WITH SPEAKER

TECHNICAL DATA SHEET



PRODUCT SUMMARY

The AtlasIED IP-PM8GD is an indoor pendant mount IP endpoint with speaker. It complements the Unified Communication (VoIP communications) investment including on-premise and hosted infrastructure platforms so that information can be pushed to people and spaces beyond the world of desktop telephony communication, breaking traditional audio-path barriers.

APPLICATIONS

AtlasIED IP-PM8GD registers as a communication endpoint directly within Singlewire®, AtlasIED®, and Syn-Apps® notification applications, supporting audio broadcast to enhance physical security while improving day-to-day communications through advanced alerting, bell schedules, and pre-recorded & scheduled announcements, while leveraging the WAN or LAN network architecture.

AtlasIED IP-PM8GD supports Call Manager publisher subscriber SIP Service call processing failover. This service provides remote location call-processing redundancy when access to the centralized Call Manager is interrupted because of a WAN outage. In a Cisco® UMC environment, IPX endpoints can register to either Cisco's basic or advanced 3rd party SIP device service for intercom or paging functionality. IPX must use Cisco's advanced 3rd party SIP device service when registering to a publisher subscriber configuration is required.

Where 3rd party notification applications are not required, the IP-PM8GD endpoint can register as a SIP device directly to a SIP server or VoIP Communications Manager for critical alerts and public address applications.

The IP-PM8GD can be attached to most overhead surfaces. For open beam ceilings a 3-meter cable kit is included with a self-gripping ferrule system. If down pipe installation from hard ceiling material is required, any 3/4" ceiling fan installation kit may be utilized. These kits are readily available under the FANTEC™ brand from home improvement stores with various down pipe length options to provide installation ease regardless of ceiling material angle (Up to 45°).

Either installation solution is discreetly implemented via the PM series' innovative top cover design. This "cap" includes a cable access plug that is easily removed for down pipe mounting. The cover also completely conceals the Ethernet cable terminations and the suspension anchor points.

KEY FEATURES

Network Features

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

Audio Codec Support

- G.711 u-law / a-law (16 kbit/s)
- G.722 Wideband Audio (64 kbit/s)

Auto Registration

- SLP for Singlewire Applications
- DNS SRV for Singlewire Applications
- DHCP Option 72 for Syn-Apps' Applications
- IEDNet+ for AtlasIED Applications

Static Configuration

- HTTP GUI for Static Configuration

Audio Features

- Integrated Amplifier with Secondary 8Ω
- Secondary 8Ω output for use with PM8GD-B analog Pendant mount speaker
- Can listen up to 10 Static Multicast Streams

Additional Features

- Phone / Night Loud Ringer

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AUDIO SPECIFICATIONS / PERFORMANCE

SYSTEM	
Type	PoE+ Indoor Pendant Mount IP Endpoint with Speaker
Operation Temp.	-20°C (-4°F) to 55°C (131°F)
Indicators	Network Status
Frequency Response (+/- 5dB)	70Hz - 15.5kHz
Vertical Coverage	105° 800Hz - 4kHz
Horizontal Coverage	105° 800Hz - 4kHz
Directivity Factor (Q)	17 @ 2kHz
Max SPL at 1m (Passive)	110dB SPL Continuous
Recommended Signal Processing	Built-In Processing

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	Curvilinear, Treated Industrial Paper
Sensitivity	98dB SPL Average

AMPLIFICATION	
Type	Single-Channel Class D Topology with Primary and Secondary Outputs
AC Power Input	PoE+
Power Rating (RMS)	25-Watts Max (802.3AT)
THD	<.02%
Cooling	Passive / Convection

AUDIO INPUTS AND OUTPUTS	
Input: Network Audio Type(s)	G.711 U-Law / A-Law and G.722 Capable
Input: Multicast Permanent Stream	Registered Subscriber/s for up to 10 Different Streams
Input: Network Connectivity	RJ-45 Female
Output: Digital Audio Type(s)	N/A
Output: Digital Connectivity	N/A
Output: Loudspeaker Level	8Ω, 25-Watts (802.3AT)
Output: Loudspeaker Connectivity	Two x Secured Screw Terminal Block

SOFTWARE	
AtlasIED GCK Compatible Version	7.0+
InformaCast Advanced Compatible Version	4.0+
InformaCast Fusion Compatible Version	3.0+
SA-Announce Compatible Versions	9.0.18+
Intrado Revolution Compatible Versions	V2017.3.1+

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SPECIFICATIONS / PERFORMANCE (CONTINUED)

NETWORK	
Ethernet	IEEE 802.3 10/100Base-T
PoE	IEEE 802.3 AT Compliant
VLAN	IEEE 802.1q Tagging
PROTOCOLS	
IP Addressing	DHCP / Static
LLDP-MED	PoE Power Negotiation
Auto-Registration	HTTP / Service Location Protocol / DNS SRV / IEDNet+ / DHCP Option 72 and Option 150
Time	NTP or Host Server
Telephony	SIP
ENCLOSURE	
Color	Black
Mounting / Rigging Provisions	Pendant Type - Cable Included, Down Pipe Optional
Safety Agency Ratings	ETL Listed to Comply with UL 62368
Ingress Protection	IP-30
Logo	Removable
Product Dimensions (HxD)	16.62" (422 mm), Diameter - 12.25" (311 mm)
Shipping Dimensions (HxWxD)	18.5" x 14.75" x 15" (470mm x 375 mm x 381 mm)
Net Weight - lbs	12.5lb (5.67kg)
Shipping Weight - lbs	15.5lb (7.03kg)
WARRANTY COVERAGE	
Warranty Period	5 Year

Note:

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.

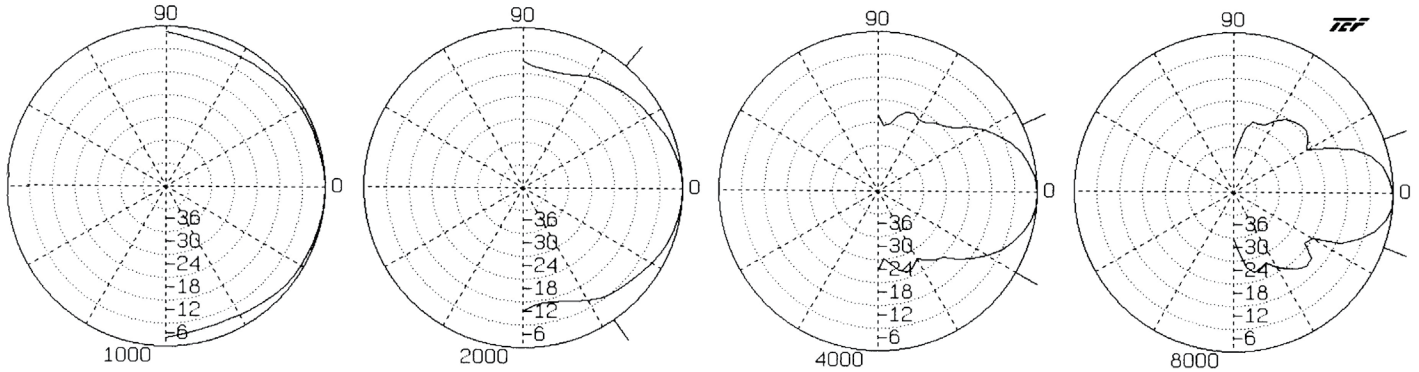
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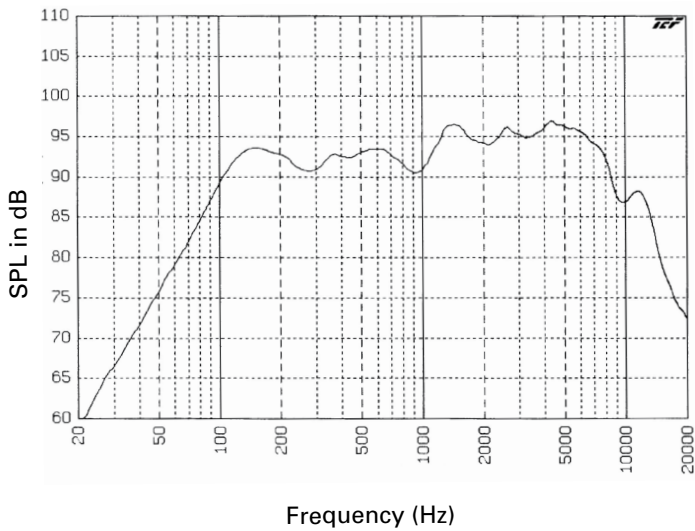
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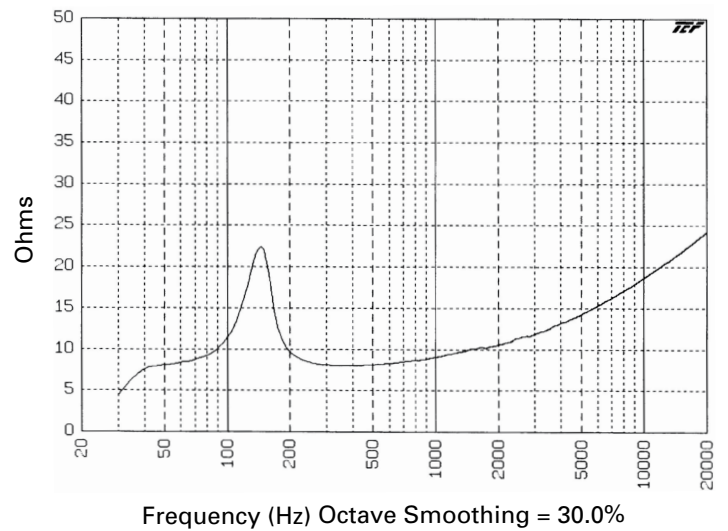
Polars Are Normalized To Zero On Axis (-6dB)



Frequency Response



Impedance



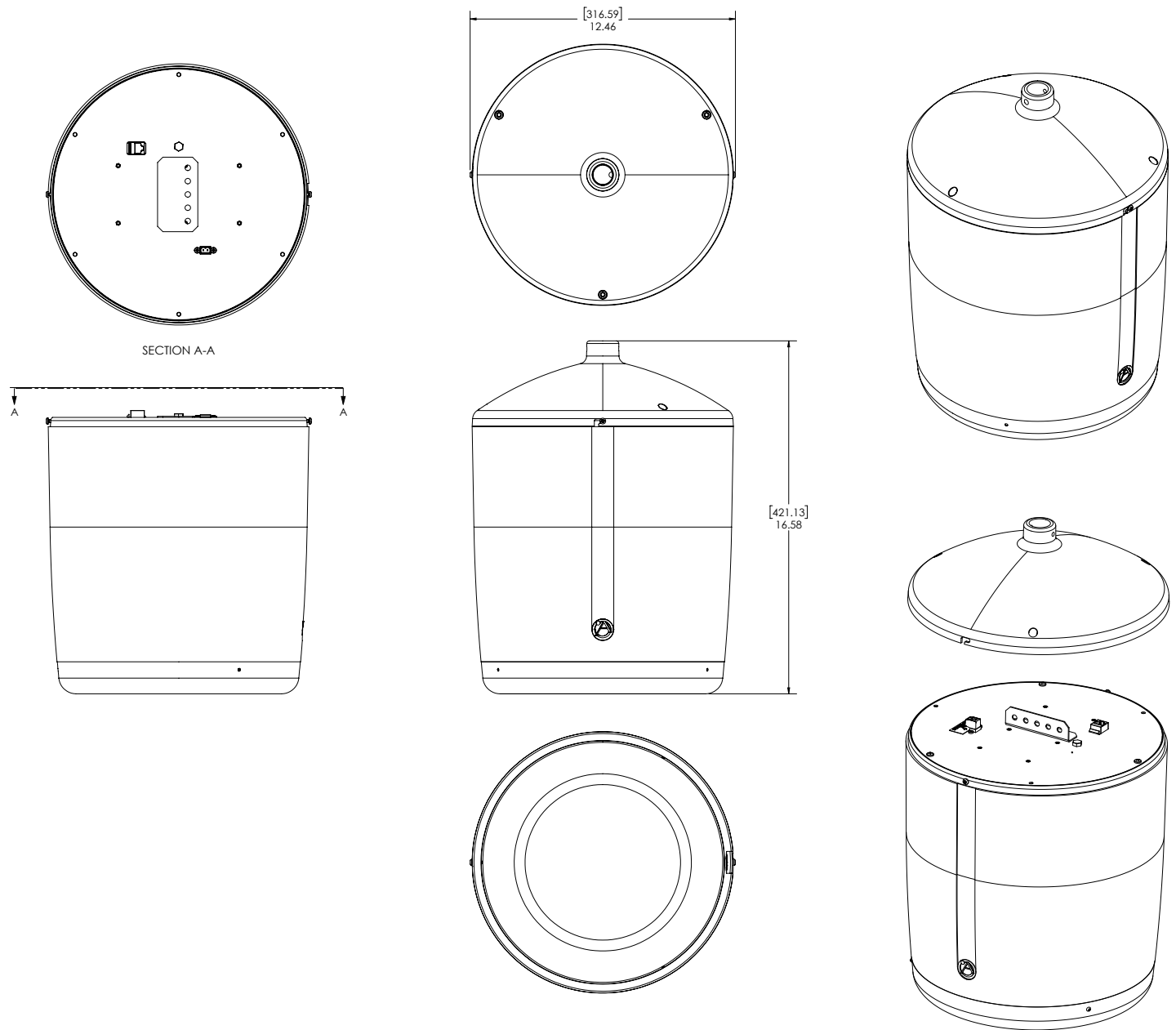
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DIMENSIONAL DRAWING



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ARCHITECT AND ENGINEER SPECS

The unit shall be AtlasIED model IP-PM8GD-B. The PoE+ indoor pendant mount IP endpoint audio system shall include factory assembled speaker, IP addressable PCB amplifier/control in a tuned and ported bass reflex enclosure and form fit grille for conventional ceiling installation via cable or down tube mounting system.

The speaker shall be an 8" coaxial driver with both a woofer and tweeter. The woofer cone shall be a full 8" (203mm) in diameter and the tweeter 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 set at 2800Hz. The speaker dispersion shall be 105° and the frequency response range shall be 70Hz – 15.5kHz, (±5dB). Sensitivity shall be 98dB at 1-Watt/1 meter. Voice coil impedance shall be 8Ω. Woofer voice coil diameter shall be 1" (25mm) and operate in a magnet field of at least 10,600 gauss.

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. Interconnect shall be via female RJ-45 connector mounted to the PCB.

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.

All control functionality shall be determined via software. It shall be compatible with AtlasIED's GCK, Syn-Apps' SA-Announce or Revolution, Singlewire's InformaCast software platforms and SIP standalone operation. The PoE+ indoor pendant mount IP endpoint audio system overall dimensions shall be 16.62" (422 mm) x 12.25" (311 mm). Finish shall be black pendant style enclosure.

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