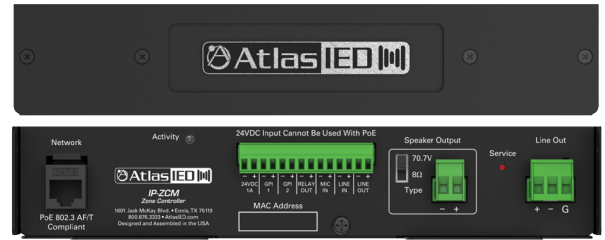




IP-ZCM

POE+ IP ADDRESSABLE IP-TO-ANALOG GATEWAY WITH INTEGRATED AMPLIFIER



TECHNICAL DATA SHEET

PRODUCT SUMMARY

AtlasIED IP-ZCM is an IP-to-analog gateway with integrated amplifier, selectable 8Ω or 70.7V speaker level output, and balanced line level outputs. 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 in areas using off network analog third party systems, including, but not limited to, analog overhead paging, trigger or be triggered access-control systems, assist to fire alarm, and two-way audio support for video-surveillance.

APPLICATIONS

AtlasIED IP-ZCM registers as a communication endpoint directly within Singlewire®, AtlasIED®, and Syn-Apps® notification applications, supporting audio alerts 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.

The IP-ZCM bridges the network to analog world utilizing CAT5e infrastructure to transmit audio broadcasts from the advanced notification applications to analog speakers or amplifiers. The integrated amplifier can deliver up to 25-watts of total power to loudspeakers at either 70.7V or 8Ω. The line output can be used to connect a commercial power amplifier that can power larger numbers of speakers allowing the system to cover large areas like quads, athletic fields, parking lots, or other common areas that are too large to be handled by a standard IP endpoint with integrated speaker.

AtlasIED IP-ZCM 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 devices 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-ZCM IP-to-Analog gateway can register as a SIP device directly to a SIP server or VoIP Communications Manager for critical alerts/public address applications.

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.729 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
- Selectable 8Ω or 70.7V Speaker Output
- Audio Line-In Balanced (1V 10k \wedge)
- Audio Line-Out Balanced (1V 10k \wedge)
- IP-ZCMIC Input Unbalanced (<2.2k \wedge)
- Can send 1 Static Multicast Stream (Line-in or Mic to Multicast Out)
- Can listen up to 10 Static Multicast Streams

Additional Features

- 2 General Purpose Inputs
- 1 General Purpose Relay Output (2A @ 30 VDC)
- External Power Supply Option

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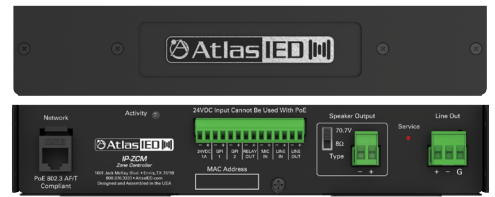
AUDIO SPECIFICATIONS / PERFORMANCE

SYSTEM	
Type	PoE+ IP to Analog Gateway (Zone Controller) with Integrated Amplifier and Balanced Line Level Outputs
Operation Temp.	-20°C (-4°F) to 55°C (131°F)
Indicators	Network Status (On Back)
General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
AMPLIFICATION	
Type	Single-Channel Class D Topology with Amplified and Balanced Line Level Outputs
AC Power Input	PoE+ and External 24VDC
Power Rating (RMS)	25-Watts Max (802.3AT)
THD	<.2%
Cooling	Passive / Convection
MICROPHONE (IP-ZCMIC OPTIONAL)	
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	
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: Multicast Permanent Stream	Registered Subscriber/s for up to 10 Different Streams
Input: Network Connectivity	RJ-45 Female
Output: Analog Audio Type(s)	One Balanced Line Level
Output: Multicast Permanent Stream	One Broadcast Using Line-In or Integrated Microphone *** Note: Audio Does Not Play out of the Sending Device***
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: Loudspeaker Level	Selectable 8Ω or 70.7V, 25W (802.3AT)
Output: Loudspeaker Connectivity	Secured Screw Terminal Block

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SPECIFICATIONS / PERFORMANCE (CONTINUED)

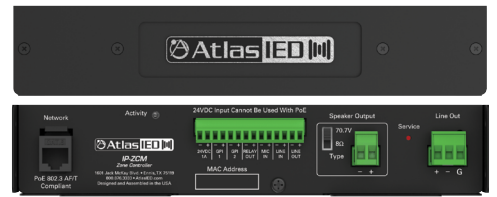
SOFTWARE	
AtlasIED GCK Compatible Version	7.0+
InformaCast Advanced Compatible Version	4.0+
InformaCast Fusion Compatible Version	3.0+
Intrado Revolution Compatible Versions	V2017.3.1+
NETWORK	
Ethernet	IEEE 802.3 10/100Base-T
PoE	IEEE 802.3 AT Compliant
VLAN	IEEE 802.1q Tagging
PROTOCOLS	
IP Addressing	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
Grille Material	N/A
Baffle Material	N/A
Mounting / Rigging Provisions	Wall Mount Via Keyhole Slots / Rack Mount 1RU Half Width
Safety Agency Ratings	ETL Listed to Comply with 62368-1, CSA C22.2 #62368-1, IEC 62368-1 CB Scheme and FCC
Ingress Protection	IP-30
Logo	Silver and Black
Product Dimensions (HxWxD)	1.72" x 8.5" x 8.85" (44mm x 216mm x 225mm)
Shipping Dimensions (HxWxD)	4.8" x 11.75" x 10.31" (122mm x 299mm x 262mm)
Net Weight - lbs	4.1lb (1.86kg)
Shipping Weight - lbs	4.76lb (2.16kg)
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.

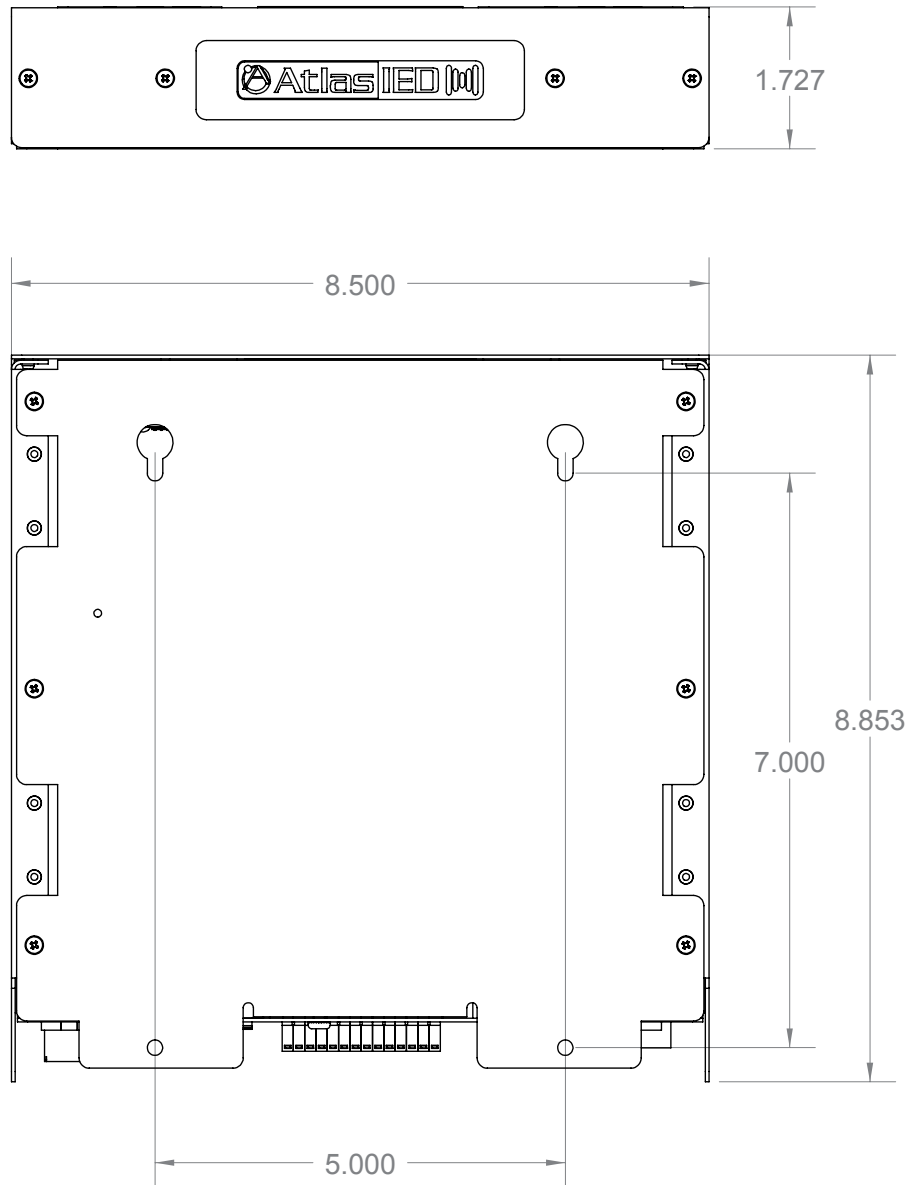
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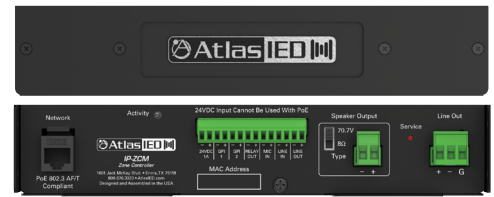
DIMENSIONAL DRAWING



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ARCHITECT AND ENGINEER SPECS

The unit shall be AtlasIED model IP-ZCM. The PoE+ zone controller shall be an IP-to-Analog network gateway with balanced line level outputs for connection to power amplifiers or 3rd party audio systems. The unit shall incorporate an 8Ω or 70.7V amplified output to drive analog speaker zones. It shall include (2) general purpose inputs and (1) relay output. The unit shall incorporate a line level and microphone input.

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 an primary output capable of producing 25-watts RMS when using an IEEE 802.3at compatible PoE+ switch or 24VDC local power supply. Interconnect shall be via female RJ-45 connector mounted to the PCB.

The amplifier/control board shall include (2) general purpose inputs, (1) relay output, (1) auxiliary Mic audio input, (1) auxiliary balanced line level audio input, (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.

All control functionality shall be determined via software. It shall be compatible with AtlasIED's GCK®, Syn-Apps' SA-Announce® and/or Revolution®, Singlewire's InformaCast® software platforms and SIP standalone operation. The IP-to-Analog network gateway overall dimensions (HxWxD) shall be 1.72" (44mm) x 8.5" (216mm) x 8.85" (224.8mm). Finish shall be neutral black electrostatic powder coat.

Optional - Rack Mount Kit Included:



IP-ZCM1RMK
Model Includes (1) IP-ZCM and PA702-RMK Rack Mount Kit



IP-ZCM2RMK
Model Includes (2) IP-ZCM and PA702-RMK Rack Mount Kit