

# IP-ZCM

## IP-to-Analog Gateway Zone Controller Installation Sheet

### Introduction

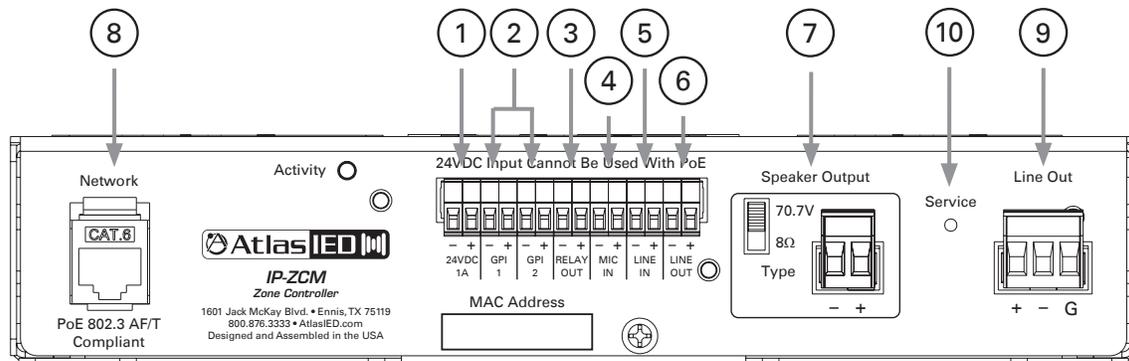
The IP-ZCM Zone Controller Pro is an analog gateway for AtlasIED IP paging systems. This model is compatible with AtlasIED's GLOBALCOM®, GCK®, Syn-Apps SA-Announce® Singlewire's InformaCast® software, and SIP standalone operation. The IP-ZCM provides a line level output to connect to AtlasIED commercial amplifiers and an 8Ω, 70.7V amplified output to drive small analog speaker zones. It also includes 2 general purpose inputs, 1 relay output, 1 line input and 1 microphone input for talk back applications. Power can be supplied via plug-in 24VDC PSU (AtlasIED recommends model TSD-PS24V2500MA) or by 802.3af or 802.3at compliant PoE network switches. All control features of the IP-ZCM are software controlled. Models IP-ZCM1RMK and IP-ZCM2RMK are also available from AtlasIED. Model IP-ZCM1RMK includes one zone controller unit and a rack mount kit. Model IP-ZCM2RMK includes two zone controller units and a rack mount kit.

### Functionality

Before installing, note the unit's MAC address found on the rear panel. Once connected to a network and powered, the IP-ZCM will boot up and automatically obtain an IP address from a DHCP server on the network. Next, the unit will start the registration process to find the controller software. Once the IP-ZCM identifies the software's location, it will send a registration request to the software and register. The MAC address of the IP-ZCM will then show in the software. Please refer to the installation manual of the software for additional configuration settings.

After the module has received a valid DHCP lease, its HTTP page can be accessed by navigating to its IP address with any HTML5 compatible Internet browser. This page will show its current firmware version and registration information.

1. Power Input (**WARNING:** Do not use in conjunction with PoE)
2. General Purpose Inputs 1 and 2
3. Relay Output
4. Microphone Input
5. Line Level Input
6. Balanced Line Level Output
7. Speaker Outputs for Primary and Secondary (each may be switched between 8Ω and 70.7V)
8. Network Input
9. Transformer Isolated Balanced Line Level Output
10. Service Button - This is the only push switch located on the rear panel.
  - Press 1 sec - The unit's IP address will be broadcast (in English) through 8Ω or 70.7V speaker output, and both line level outputs
  - Press 3 - 10 sec - Reboot
  - Press 10+ sec - Factory Reset



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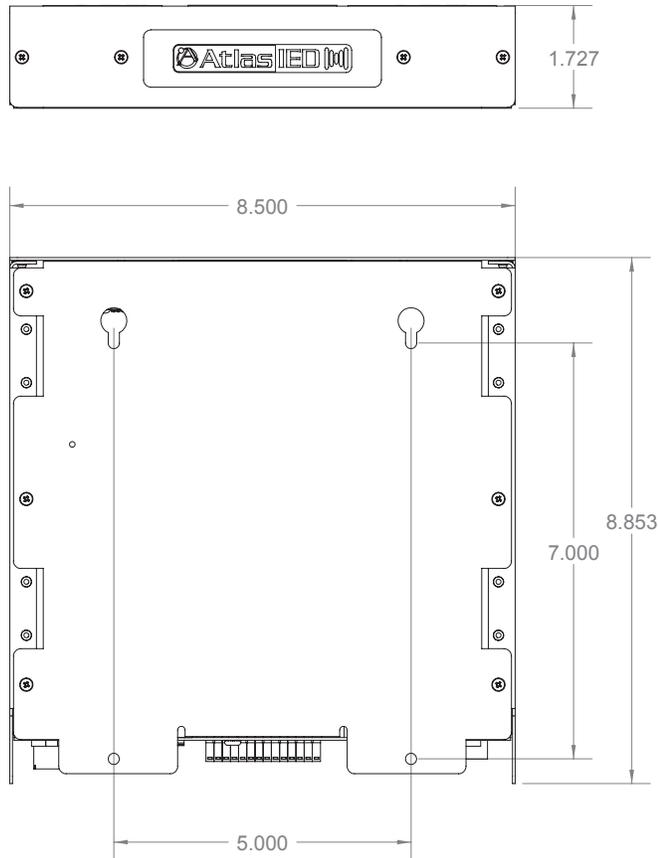
<b>System</b>	
Type	PoE+ IP to Analog Gateway (Zone Controller)
Operation Mode	Self Powered
Indicators	Network Activity
General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
<b>Amplification</b>	
Type	Single-Channel Class D Topology
AC Power Input	PoE or PoE+ and External 24VDC
Power Rating (RMS)	12 Watts Max (802.3AF) / 25 Watts Max (802.3AT)
THD	<.2%
Cooling	Passive / Convection
<b>Microphone (Optional)</b>	
Sensitivity	Minus 35 ( $\pm 4$ dB) / (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
<b>Audio Inputs and Outputs</b>	
Input: Analog Audio Type(s)	One Balanced 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)	Two Balanced Line Level, 1 Transformer Isolated
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	8 $\Omega$ , 12W (802.3AF), 25W (802.3AT)
Output: Loudspeaker Connectivity	Secured Screw Terminal Block
<b>Software</b>	
SA-Announce Compatible Versions	9.0.18+
InformaCast Compatible Version	8.0+
GCK Compatible Version	3.0+
<b>Network</b>	
Ethernet	IEEE 802.3 10/100Base-T
PoE	IEEE 802.3 AF/AT Compliant
VLAN	IEEE 802.1q Tagging
<b>Protocols</b>	
IP Addressing	DHCP / Static
Auto-Provisioning	HTTP / TFTP
Auto-Registration	HTTP / Service Location Protocol / IEDNet
Time	NTP
Telephony	SIP

Enclosure	
Color	Black
Grille Material	N/A
Baffle Material	N/A
Mounting / Rigging Provisions	Wall Mount Via Key Hole Slots / Rack Mount 1RU Half Width
Safety Agency Ratings	ETL Listed to Comply with UL62368
Ingress Protection	IP-30
Logo	Silver and Black
Product Dimensions (HxWxD)	1.72" (44mm), 8.5" (216mm), 8.85" (225mm)
Shipping Dimensions (HxWxD)	4.8" (122mm), 11.75" (299mm), 10.31" (262mm)
Net Weight - lbs	4.1lbs (1.86kg)
Shipping Weight - lbs	4.76lbs (2.16kg)
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.

**Dimensional Drawings**



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## Limited Warranty

All products manufactured by AtlasIED are warranted to the original dealer / installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. Atlas Sound will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to Atlas Sound do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlasIED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

## Service

Should your IP-ZCM require service, please contact the AtlasIED warranty department at 1-877-689-8055, ext. 277 or [support.atlasied.com](mailto:support.atlasied.com) to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or [support.atlasied.com](mailto:support.atlasied.com).

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