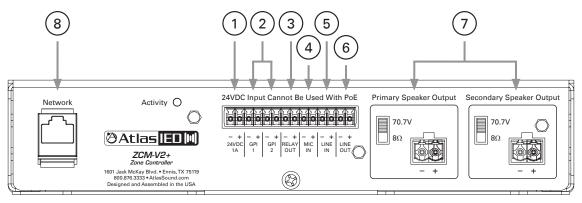# ZCM-V2+

Zone Controller

Introduction

The ZCM-V2+ Zone Controller Pro is an analog gateway for AtlasIED IP paging systems. This model is compatible with AtlasIED's Global ControlKom©, GCK©, Syn-Apps SA-Announce© Singlewire's InformaCast© software, and SIP standalone operation. The ZCM-V2+ 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 GPI inputs, 1 relay output, 1 line input and 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 ZCM-V2+ are software controlled. Models ZC1PRO+ and ZC2PRO+ are also available from AtlasIED. Model ZC1PRO+ includes one zone controller unit and a rack mount kit. Model ZC2PRO+ includes two zone controller units and a rack mount kit.

Functionality

Once connected to a network and powered, the ZCM-V2+ 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 ZCM-V2+ identifies the software's location, it will send a registration request to the software and register. The MAC address of the ZCM-V2+ will then show in the software. Please refer to the installation manual of the software for additional configuration settings.

After the module has registered with the software, its HTTP page can be accessed by navigating to its IP address with any 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. GPI Inputs 1 and 2

3. Relay Output

4. Microphone Input

5. Line Level Input

6. Line Level Output

7. Speaker Outputs for Primary and Secondary (each may be switched between 8Ω and 70.7V)

8. Network Input

GPI Interface

GPI inputs are used to trigger events in the Control software packages. Refer to software manuals for functionality.

Relay output is controlled via software packages. Refer to software manuals for functionality.

Mounting

One or two Zone Controller units can be rack mounted side by side using the installed PA702-RMK rack mount kit.

General Specifications

Rack Space	1RU (1.75")
Weight	ZCM-V2+ - 4 lbs
	ZC1PRO+ System - 5 lbs
	ZC2PRO+ System - 9 lbs
Height	1.717" (43.6mm) - ZCM-V2+ Module
Width	8.5" (215.9mm) - ZCM-V2+ Module
Depth	8.853" (224.9mm) - ZCM-V2+ Module
Module Mounting	2 Key Holes (5" (127mm) Span) for Wall Mount
	Rack Kit is Included When Ordering ZC1-PRO+ and ZC2-PRO+ Systems

Amplifier / Control Specifications

Power Rating	15-watts RMS into an 8Ω Load with 802.3at
Inputs	RJ-45 Female
Outputs	10k Ω, 8Ω Speaker, and 70.7V Speaker
Power Source	IEEE 802.3af or 802.3at PoE Network Switches / Local 24VDC PSU
Network Control	Multicast Enabled Networks
Line Output	1V 10k Ω
Line Input	1V 10k Ω

GPI Specifications

Relay Output	30V at 2A Max
Input Minimum	1mA to Run on 30V Max

Microphone Specifications (Optional) Electret Condenser Microphone (not included)

Sensitivity	-35 (±4dB) (0db = 1V/pa, 1kHz)
Impedance	Less than 2.2k Ω
Directivity	Omnidirectional
Frequency	20Hz - 20kHz
Max. Operation Voltage	10V
Standard Operation Voltage	2V
Current Consumption Max.	0.5 mA
Sensitivity Reduction Within	-3dB @ 1.5V
S/N Ratio	More than 62dB

Internal Settings - The following settings / adjustments can only be made by removing the bottom of the unit. Unplug the unit's network RJ45 cable as well as external 24VDC power supply (if used). Remove the quantity of six flat head 4-40 screws from the bottom of the unit. In addition, remove the two flat head 4-40 screws closest to the logo badge on the front of the unit. Finally, remove the single 6-32 button head screw from the back of the unit. At this point, the bottom may be removed from the unit. Inside will be:

1. Service Button - Is the only push switch located on the main circuit board.

•   Press 1sec - The unit this speaks IP address (in English) through 8Ω or 70.7V Speaker output

•   Press 10sec - Factory Reset

2. Force Discovery - In some cases, auto discovery may not work correctly. In these cases, the A, B, and C jumper located under the service button may be enabled.

•   Jumper A - Single Wire

•   Jumper B - Syn-Apps

•   Jumper C - IED

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 ZCM-V2+ require service, please contact the AtlasIED warranty department at

1-877-689-8055, ext. 277 or support.atlassound.com to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or support.atlassound.com.

Visit our website at www.AtlasIED.com to see other AtlasIED products.