# ZC1-CK & ZC2-CK

*IP Compliant Line Level Interface – Powered by POE Network Switches*

***ZC1-CK***
***(Mounted)***

***ZC2-CK***
***(Mounted)***

## Features

- IP Speakers From Atlas Sound Allow Users or System Administrators to Send Live, Prerecorded or Ad Hoc Messages Along with Control Data to Speaker End Points Over New or Existing Multicast Enabled Local Area Networks.
- Balanced Line Output to Drive Atlas Sound's CP, PA, or AA Series Amplifiers
- Modular 1RU Design Allows for Easy Rack Mounting and Cable Access
- Systems Available with Single (ZC1-CK) or Dual Module (ZC2-CK) Configurations

## General Description

Models ZC1-CK and ZC2-CK from Atlas Sound consist of a factory assembled PCB control board housed in a rugged and compact 1RU chassis. The unit provides the same addressable end point functionality as an IP speaker or IP phone with the convenience of line level audio output. This line level output is perfect for use with Atlas AA, PA, or CP series amplifiers to power large zones of traditional 25V, 70.7V, or 100V Atlas loudspeaker or paging horn assemblies.

The control board receives 12VDC power provided by IEEE 802.3af compliant POE switches (local 12VDC – 18VDC PSUs may also be used instead of POE switches). Network interconnection is via a board mounted female RJ-45 connector on the front panel. Output is balanced line level via a 3 pole terminal block on the rear panel.

The unit is finished in flat black electrostatic powder coat.

## Specifications

| | | Comment/Condition |
|---|---|---|
| Analog Output | Transformer Balanced | 3-Pole Terminal Block |
| Output Trim Range (Software Controlled) | +16 – -30 (Plus Mute) | ½dB steps, gain above unity is digital, attenuation below unity is analog |
| Impedance | 600Ω | Each Leg to Ground |
| Maximum Level | +23 dBu (+24 dBu Unloaded) @ 1kHz, 2kΩ load | |
| Frequency Response | 20Hz – 20kHz (±1dB) | |
| Dynamic Range | 105dB min | A-Weighted |
| IM Distortion (SMPTE) | <0.01 0.01% 60Hz / 7kHz, 4:1, +4dBu | |
| Crosstalk | 100dB typical 1kHz bandpass | |
| Audio Convertors | 24 bit | |
| Audio Processing | 24 bit and higher | |
| Propagation Delay | 1.58ms minimum | |
| Ethernet | 10 Base-T | 10MB/S RJ-45 connector |
| Max Cable Length | 328' (100m) | Standard Ethernet Cat 5 Cable Length Limits |
| Power Requirements | 12VDC – 18VDC | IEEE 802.3af Compliant POE switches or local 12VDC – 18VDC PSU |
| Max Current Draw | 800mA | |
| Construction | 18-gauge CRS | |
| Height | 1RU, 1¾" (44mm) | |
| Width | 19" (483mm) | |
| Depth | 8⅛" (209mm) | |



Atlas Sound
1601 JACK MCKAY BLVD. ENNIS, TEXAS 75119 U.S.A.
TELEPHONE: (800) 876-3333
FAX (800) 765-3435

## Applications

The perfect choice for education, military / government, and large scale corporate applications, ControlKom™ 2.0 software revolutionizes communication, clock / bell, and message playback functionality. It provides the capability to simultaneously send a multicast audio stream and text messages to any combination of IP phones, Atlas Sound IP speakers, zone controllers, and PCs. With the push of a single button on the phone or a single click from a PC, a user can send a live, recorded, or scheduled broadcast to one or more paging groups. ControlKom™ 2.0 compliant products from Atlas Sound, system designers and integrators will have the ability to deploy extremely large scale and complex paging systems over new or existing IP networks with the convenience of centralized administration by IT personnel.

The ZC1-CK or ZC2-CK Zone Controller also offers extreme cost savings by eliminating separate "stand alone" paging systems when ContolKom™ 2.0 is utilized in education applications.

## Architect & Engineer Specifications

Unit shall be Atlas Sound IP Compliant Zone Controller Model ZC1-CK for assembly including mounting plate and single interface module or ZC2-CK for assembly including mounting plate and two interface modules. 12VDC power shall be provided either locally or via IEEE 802.3af compliant POE switches. Network interconnect shall be via a female RJ-45 front mounted connector and line level audio output shall be via a 3 pole terminal block. All control functionality of the Zone Controller shall be determined via software. The zone control chassis shall be constructed of 18-gauge CRS and finished in flat black electrostatic powder coat.

***ZC1-CK Module***
***(Front)***



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