

IED1544ZOP / IED1544ZOPC

GLOBALCOM® 4x4 Zone Output Processor – IED1544ZOP Dante® / IED1544ZOPC CobraNet®



Features

- GCK Integration for Analog Audio Devices
- Supports 4x4 Dante® (IED1544ZOP) or CobraNet® (IED1544ZOPC) Digital Audio
- 4x4 Channel Balanced Line Level Audio I/O
- Redundant PoE
- 8 Ambient Sensor (IED0540S) Connections for Automatic Level Adjustment to Ambient Noise
- 4 Standard Logic Inputs
- 4 Supervised Logic Inputs for Detecting Shorted or Broken Wires
- 7-band Parametric EQ with Low and High Pass Filter Per Channel
- Supervision of Speaker Lines with Indicator (IEDM596SGFI) and End-of-Line Module (IED5411EOL)
- Fault Relay

General Description

The ZOP (IED1544ZOP / IED1544ZOPC) zone output processor is a GLOBALCOM® auxiliary device for integrating line level analog devices with GLOBALCOM® Series Announcement Control Systems. The ZOP acts as a GCK endpoint to provide an I/O interface with analog audio devices using an EQ and level control.

Eight logic inputs are included for triggering actions in GCK, four of these as standard logic inputs and four as supervised inputs for detecting shorted or broken wires. The ZOP provides a redundant PoE connection that can be supplemented with an optional 12/24/48V DC auxiliary power connection for non-PoE switches.

Up to eight ambient noise sensors (IED0540S) can be connected to GCK for automatic level adjustment. Up to 2 sensors per channel can be used to adjust levels locally or on a remote T112/T112C. Using GCK, levels can automatically be adjusted higher so that audio can be heard over a louder area and lower over a quieter area.

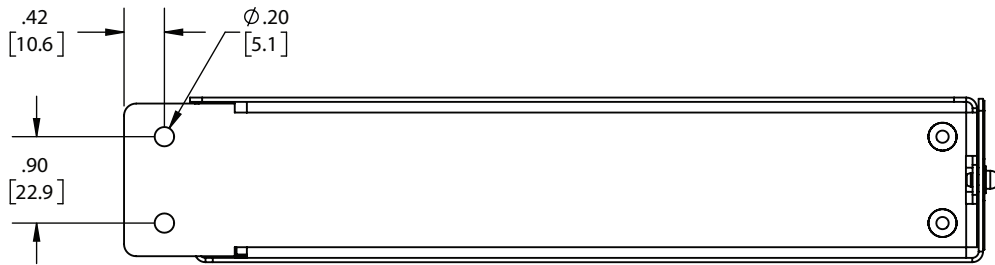
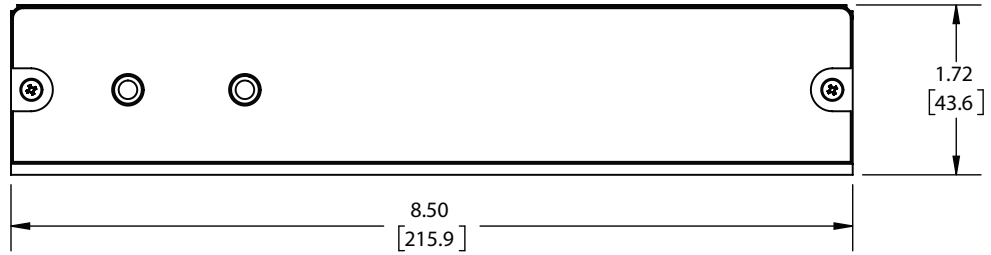
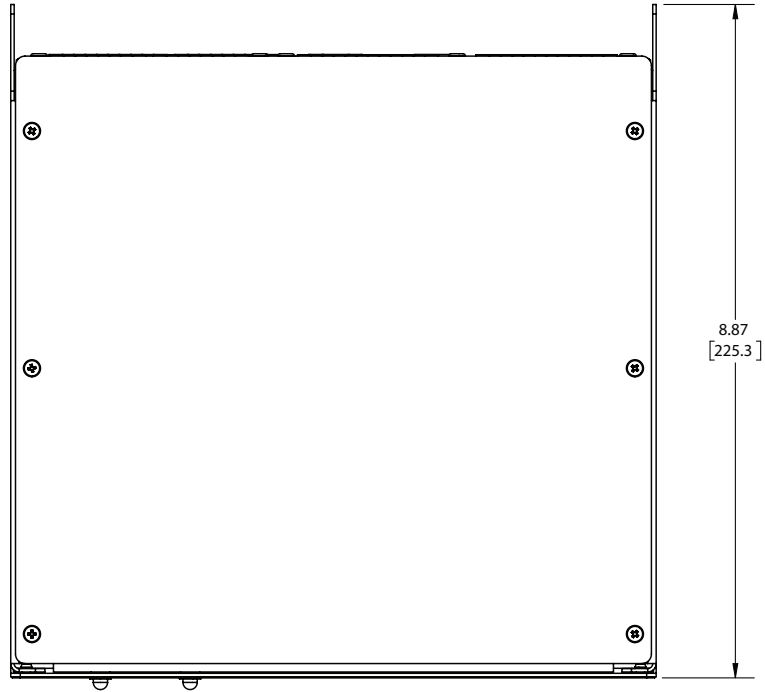
For detecting shorted speaker lines from an amplifier, the line level inputs may be used with an end-of-line module (IED5411EOL) and indicator (IEDM596SGFI) that can be purchased separately. A fault relay on the back activates automatically when a fault is detected.

The zone output processor comes with rack mount kit PA702-RMK.

Electrical	
Power	IEEE 802.3af PoE
Auxiliary Power	12/24/48V DC (polarized)
Power Consumption	10W Max
Audio	
Digital Audio Support	Dante® (IED1544ZOP) or CobraNet® (IED1544ZOPC)
Analog Balanced Line Level Audio I/O	4 x 4 Channel
Total Harmonic Distortion (THD) 20Hz-20kHz, 0dBu, unweighted	<0.01%
Signal-to-Noise Ratio (SNR) 20Hz-20kHz, +6dBu, unweighted	Line In to Line Out : >89 dB Line In to Network DSP : > 89 dB Line In to Processed Network DSP : >70 dB
Frequency Response 20Hz-20kHz, 0dBu, Unweighted	Line In to Line Out : +/- 2.2 dB Line In to Network DSP : +/- 2.2 dB Line In to Processed Network DSP : +/- 4.6 dB
Max Level	Line In: +6 dBu Line Out: +6 dBu
Number of Ambient Sensors	8 (2 per Channel)
Parametric EQ	7-band with Low and High Pass Filter Per Channel (With GCK)
Logic Inputs	
Number of Standard Logic Inputs	4
Number of Supervised Logic Inputs	4
Connectors	
Auxiliary Power	2 Pin 3.81mm Pitch Euroblock with Screw Flange
Line Inputs	10 Pin 3.81mm Pitch Euroblock Connector (1 for Inputs 1-4)
Line Outputs	10 Pin 3.81mm Pitch Euroblock Connector (1 for Outputs 1-4)
Fault Relay	3 Pin 3.81mm Pitch Euroblock
Ambient Sensors	12 Pin 3.81mm Pitch Euroblock 2 Connectors (1 for Sensors 1A-2B, 1 for Sensors 3A-4B)
Standard Logic Inputs	8 Pin 3.81mm Pitch Euroblock
Supervised Logic Inputs (Short or Broken Wire Detection)	8 Pin 3.81mm Pitch Euroblock
Network	Redundant RJ-45 with Yellow Connection and Green Data LED
Dimensions and Weight	
Dimensions – Unit Only	8.87" x 8.50" x 1.72" (225mm x 216mm x 44mm)
Dimensions – Unit w/Rack Hardware Installed	8.87" x 18.98" x 1.72" (225mm x 482mm x 44mm)
Dimensions - Shipping (Unit and Rack Hardware)	14.73" x 10.50" x 2.33" (374mm x 267mm x 57mm)
Weight – Unit Only	3.4 lbs (1.5 kg)
Weight – Single Unit w/Rack Hardware	3.9 lbs (1.8 kg)
Weight – Shipping (Unit and Rack Hardware)	4.6 lbs (2.1 kg)
Environmental	
Operating Temperature Range	32°F to +104°F (0°C to +40°C)
Storage Temperature Range	-40°F to +158°F (-40°C to +70°C)

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Dimensional Drawings



Architect & Engineer Specifications

The GLOBALCOM® Zone Output Processor (ZOP) shall provide for digital audio transmission and reception over a standard Ethernet connection using either Dante® or CobraNet® digital network audio using GCK for discovery and control. It shall support a 7-band parametric equalizer with a low and high pass filter, automatic level adjustment using ambient sensor connections, and level control on a per channel basis. The ZOP shall be powered via an IEEE 802.3af connection. It shall include a secondary IEEE 802.3af Ethernet port for redundant network and power capability. An auxiliary 12/24/48V DC power port shall be provided for non-powered Ethernet connections. It shall provide internal fault status through the network connection via a fault relay connection on the back.

The ZOP shall provide eight (8) Logic inputs, four (4) are standard closure detection and four (4) are supervised which shall provide a means by which open or short conditions can be monitored and reported on the incoming links for fire alarm and emergency notification use. The ZOP shall provide connections for up to 2 ambient sensors per channel (8 total) for the output of each channel or remote T112/T112C channel to be automatically adjusted in real time, based on the measured ambient noise level in the zone.

The GLOBALCOM® zone output processor shall be the AtlasIED IED1544ZOP (Dante®) or IED1544ZOPC (CobraNet®).