



5432DZM GLOBALCOM® 5400 Series Digital Zone Manager



Features

- 4 Input x 32 Output Zone Manager for 4 banks of 8 Speaker Outputs
- Allows dividing up to 500 W per channel to up to 8 zones via relay switching
- 4 Audio inputs via Dante audio networking (high quality over Ethernet)
- · Provides redundant Ethernet ports
- Provides backup amplifier switching
- Fully supervises amplifier and speaker lines
- DSP processing for 4 amplifier channels:
 - Low and high pass filters
 - 7-Band parametric EQ filters
 - Up to 40 milliseconds of delay

Front Panel Features

- Frame Status Indicators:
 - Fault (yellow)
 - Ground Fault (yellow)
 - Power (green)
 - Power Save Mode (yellow)
 - Announce / Alarm (green / red)
- Lamp Test Button
- Indicators for each Amp Channel:
 - Amp Status: Power (green), Fault (yellow) or Alarm Active (red)
 - Backup Amp Engaged (green square)
 - Speaker Line Fault (8 yellow triangles)
 - Speaker Line Active (8 green speaker icons)

General Description

The 5432DZM Digital Zone Manager provides processing and management of up to 32 paging zones assigned from an IED 5400 Announcement Control System. It provides line level audio outputs to a paired four (4) channel amplifier unit. Digital Signal Processing (DSP) is provided on each of the four (4) output channels. This includes: gain control for the paging input, paging routing, automatic ducking of background music, equalization (high pass filters, low pass filters, up to 40 milliseconds of delay, plus up to 7 parametric bands per amplifier channel). The paired amplifier output comes back into the 5432DZM and then is distributed to up to eight (8) speaker line outputs. Each of the 32 speaker lines is supervised. The 5432DZM provides backup amplifier switching by switching groups of eight (8) loudspeaker loads from a primary power amplifier to a backup when a failure is detected. It also contains integrated supervision that monitors each signal path and reports any failures to the 5400ACS. The mainframe requires two (2) rack units (3.5") of vertical space in a 19" equipment rack/cabinet. All cooling is front to back.

Mechanical / Electrical Microphone

- Low-power processor for high reliability and long life with minimal cooling requirements
- Powered from 12-24 VDC power input, such as an EN54-4 power supply
- Requires 2 rack units of 19" rack space

Specifications

Electrical:

Supply Voltage Recommended Operating

Conditions

Fault Relay Contact Rating Backup Amplifier Inputs

Main Amplifier Inputs Speaker Outputs

Battery Logic Input

OFF BATTERY

ON BATTERY 24V Fault Logic Input

24 VDC FAULT **24 VDC GOOD**

Amp On/Off Pulse Output

AMP OFF

AMP ON

Amp Channel Fault Logic Input AMP FAULT

AMP GOOD

12-24 VDC @ 54.2 Watts Max

24 VDC @ 2.25 Amps Max 2 Amps @ 110 VDC Max 500 Watts Max / Channel 500 Watts Max / Channel 100 Watts Max / Channel

0.8 VDC Max

2 VDC - 3 VDC Max or Open

0.8 VDC Max

2 VDC - 3 VDC Max or Open

-12 VDC @ 0.08 Amps for 0.02 Secs. +12 VDC @ 0.08 Amps

for 0.02 Secs.

0.8 VDC Max

2 VDC - 3 VDC Max or Open

Mechanical:

Height 3.47", 2 rack units (8.81 cm)

Width (without rack mount ears) 17.2" (43.7 cm)

12.25" (31.1 cm)

Recommended Mounting Depth

Weight

18" (45.7 cm) 18.15 lbs. (8.23 kg)

Environmental

Operating Temperature Range

Storage Temperature Range

32°F - +104°F (0°C - +40°C) -4°F - +158°F (-20°C - +70°C)

Connectors: Power

Redundant Ethernet (2)

Form C Fault Relay

Amplifier Audio Outputs (4)

Amplifier Channel Faults (4)

Main Amplifier Inputs (4)

Backup Amplifier Inputs (4)

Speaker Outputs (32)

2-pin Phoenix, 3.81 mm spacing with locking screws

Control and Digital Audio (100

Mbps) RJ-45

3-pin Phoenix, 3.81mm spacing 3-pin Phoenix, 3.81mm spacing

3-pin Phoenix, 3.81mm spacing

2-pin Phoenix, 5.08mm spacing 2-pin Phoenix, 5.08mm spacing

2-pin Phoenix, 5.08mm spacing