

5404DZM GLOBALCOM® 5400 Series Digital Zone Manager



Features

- Management of 4 individual output channels
- 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
- · Provides ambient analysis and compensation with 8 sensor input channels
- 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)Speaker Line Fault (yellow triangle)
 - Backup Amp Engaged (green square)

General Description

The 5404DZM Digital Zone Manager provides processing and management of four (4) paging zones assigned from an IED 5400 Announcement Control System. It also provides line level audio outputs to a paired four-channel amplifier unit. Digital Signal Processing (DSP) is provided on each of the four (4) output channels. This includes: input level controls, 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). IED's patented ambient analysis and control provides automatic level adjustment with two (2) Sensor Input Channels per amp channel. The 5404DZM provides backup amplifier switching by switching up to four (4) 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 one (1) rack unit (1.75") of vertical space in a 19" equipment rack/cabinet. All cooling is front to back.

Mechanical / Electrical

- 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 1 rack unit of 19" rack space

Specifications

Electrical Supply Voltage Recommended Operating Conditions Rated Input Current Fault Relay Contact Rating Backup Amplifier Inputs Main Amplifier Inputs Speaker Outputs Ambient Sensor Channels Sensor Supply Voltage

Channel Sensor Input Voltage 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 @ 15.7 Watts Max

24 VDC @ 0.65 Amps 2 Amps Max (24W) 2 Amps @ 110 VDC Max 500 Watts Max / Channel 500 Watts Max / Channel 500 Watts Max / Channel

27 VDC Max @ 1W for 8 total sensors 0 – 24 VDC @1 mA for each input

0.8 VDC Max or Closed 2 VDC – 3 VDC Max or Open

0.8 VDC Max or Closed 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 or Closed 2 VDC – 3 VDC Max or Open

	Mechanical:	
	Height	1.75", 1 rack unit (4.4 cm)
	Width (without rack mount ears)	17.2" (43.7 cm)
	Depth	12.25" (31.1 cm)
	Recommended Mounting Depth	18" (45.7 cm)
	Weight	10.15 lbs (4.60 kg)
	Environmental:	
	Operating Temperature Range	+32°F – +104°F (0°C – +40°C)
	Storage Temperature Range	-4°F – +158°F (-20°C – +70°C)
	Connectors:	
out	Power	2 nin Dhaaniy 2 21 mm anaging
	Power	2-pin Phoenix, 3.81 mm spacing with locking screws
	Redundant Ethernet (2)	Control and Digital Audio (100 Mbps) RJ-45
	Ambient Sensors (8)	3-pin Phoenix, 3.81mm spacing
	Form C Fault Relay	3-pin Phoenix, 3.81mm spacing
	Amplifier Audio Outputs (4)	3-pin Phoenix, 3.81mm spacing
	Amplifier Channel Faults (4)	3-pin Phoenix, 3.81mm spacing
	Main Amplifier Inputs (4)	2-pin Phoenix, 5.08mm spacing
	Backup Amplifier Inputs (4)	2-pin Phoenix, 5.08mm spacing
	Speaker Outputs (4)	2-pin Phoenix, 5.08mm spacing