

GEMINI

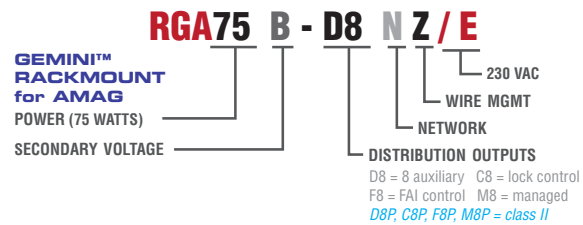
Overview

The RGA75 Series is a 75W integrated 2U rackmount power system that incorporates system power, lock power and various combinations of AMAG controllers. RGA enclosures provide mounting for one (1) M4000 or one (1) 8DBC or smaller controller and multiple LifeSafety Power FlexPower® devices in an access control system capable of controlling eight doors as a standalone or multiple doors when interconnected. LSP power modules are provided based on RGA model number and AMAG controllers are provided by the integrator based on the job requirements.

Available options include single (12V DC) or dual voltage operation (12 and 24V DC), power distribution and control, individual output protection by either fuses or class 2 power limiting, buffered lock control, and remote reporting and test. Each output is protected against electrical surges caused by lightning or transients on the external wiring (SurgeShield™) and each control output is individually selectable for available DC voltages, and either failsafe or failsecure operation with fire alarm interface.

Optional network reporting capabilities include: operational fault status; power supply output; battery charging voltage; battery charging current; and fire alarm input status. In addition to automated and scheduled status reports, diagnostic servicing and battery load tests can be performed remotely, saving or reducing the cost of on-site servicing.

The unit is intended for mounting within a standard four post EIA 19 inch electronics rack with a maximum depth of 36 inches.



Rackmount Features

- Integrated access system with lock and system power distribution
- Compartmentalized architecture for maximum reliability
- Rack drawer slide assembly simplifies controller wiring and maintenance
- Comprehensive wire management with tie down points and articulating bracket
- 120 or 230V AC user selectable input supports data center electrical systems

Configuration Options

- Single voltage or 12 and 24VDC dual voltage options cover all access functions
- Power distribution for either direct (D8) buffered (C8) or managed (M8)
- Individual output selection for failsafe, failsecure, lock voltage and fire alarm interface
- High capacity battery charge capability
- Automotive fuses for ease of service and replaceability
- Easy door expansion with multiple Gemini drawers
- Available companion battery housing for rackmount use (part number RBE)

Network Monitoring

- Monitor/alert power supply, battery operation and faults
- Remote test battery run time, low battery and time to service alert
- Monitor/power cycle individual outputs (M8N model)
- Monitor alert external room temperature

Fire Alarm Interface

- Latching or Non-latching | Remote reset capability
- Normally Open, Normally Closed
- Voltage or Polarity Reversal Activation

Comprehensive fault detection and reporting

- May be connected into access controller or used standalone
- Form C contact transfer for AC Loss or brownout
- Form C contact transfer for abnormal system operation

Agency Listings

- UL, CUL, CE Access Control

Lifetime Warranty

Ordering

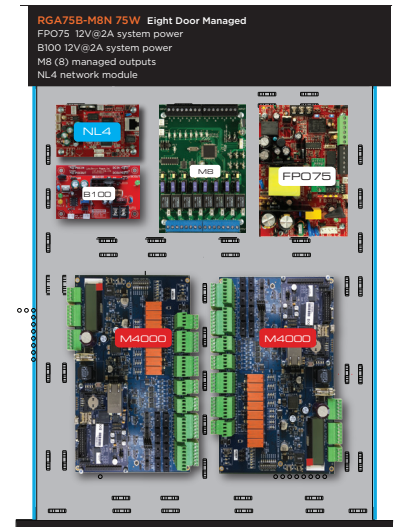
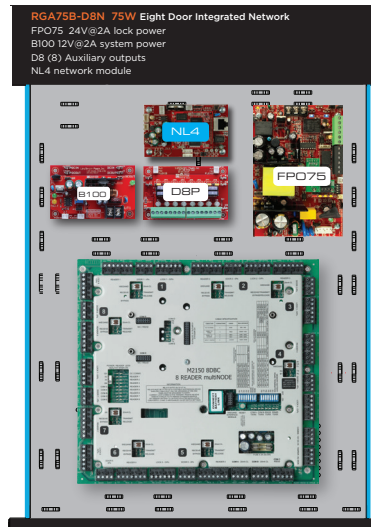
| Model No. | Network | Voltage | Current | Internal Distribution | | | |
|-------------|---------|----------------|-------------------|-----------------------|-----------|---------|---------|
| | | | | Bulk | Auxiliary | Control | Managed |
| RGA75-D8Z | | 12V DC | 12A/12V | 2 | 8 | | |
| RGA75-C8Z | | | | 2 | | 8 | |
| RGA75-C8D8Z | | | | 2 | 8 | 8 | |
| RGA75-D8NZ | Yes | | | 2 | | | 8 |
| RGA75B-D8Z | | 12V and 24V DC | 4A/12V and 4A/24V | 2 | 8 | | |
| RGA75B-C8Z | | | | 2 | | 8 | |
| RGA75B-D8NZ | Yes | | | 2 | 8 | | |
| RGA75B-M8NZ | Yes | | | 2 | | | 8 |

Single voltage - factory set to 12VDC

Dual voltage - outputs can be individually set for 12V or 24VDC

Networking - monitors power supply, battery set and relay control outputs

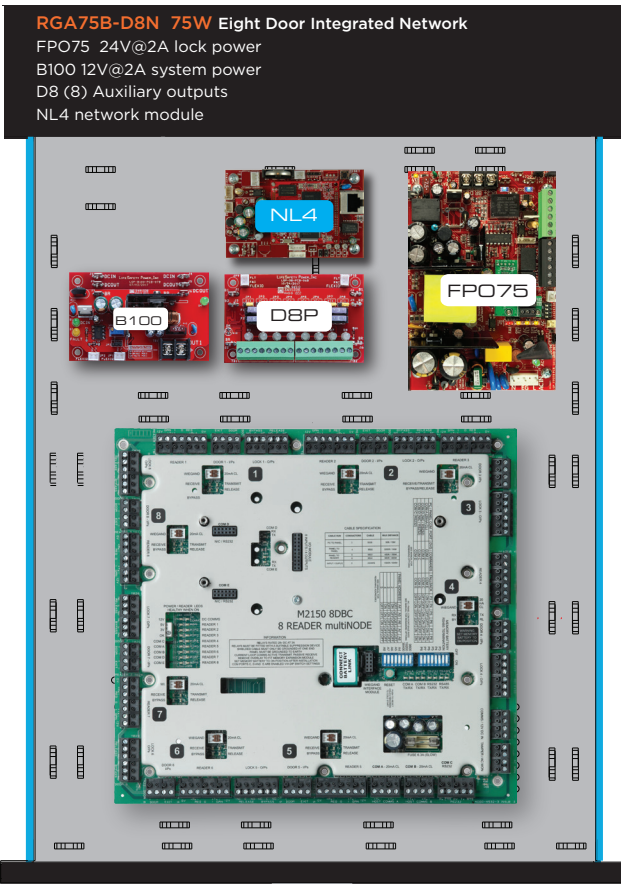
For CE 230VAC option, add " / E" suffix to model number, i.e RGA75-D8Z/E



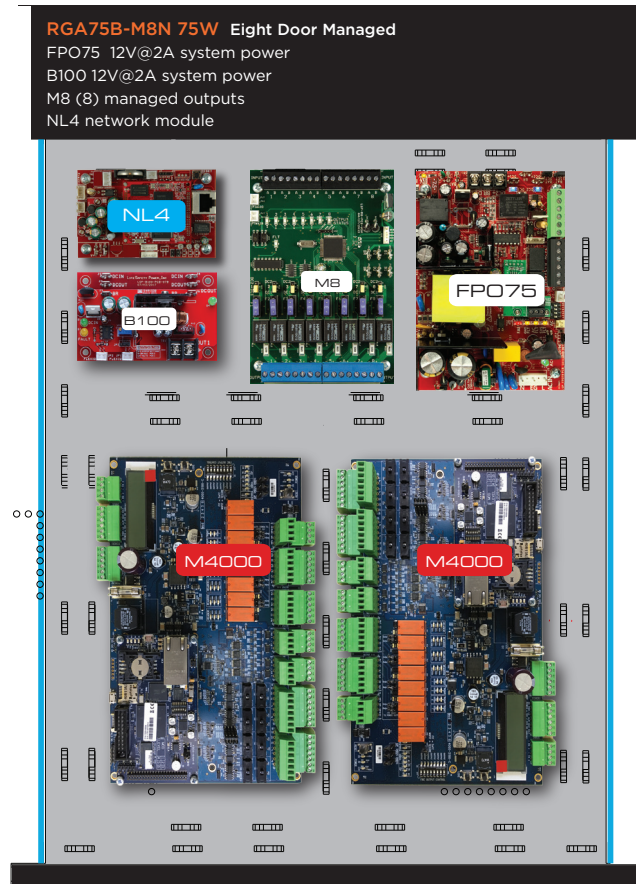
Specifications

| | | |
|------------------------------------|---|--|
| Input Power | Input 120/230 VAC 50/60 Hz 83 Watts Thermal overload protection / Short circuit protection | |
| Output Power | RGA75 | 75 Watts: 6 amps at 12 VDC or 3 amps at 24 VDC (factory default setting is 12VDC) |
| | RGA75B | 75 Watts: 2 amps at 12 VDC and 2 amps at 24 VDC (factory set to 24VDC and 12VDC) (allows 1A per AMAG, 0.50A per lock. If AMAG board draws less, lock power is more) |
| Internal Power Distribution | D8/D8P eight auxiliary outputs: D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea C8/C8P eight relay lock control outputs: C8 fused at 3A/ea, C8P Class II Power limited at 2.5A/ea M8/M8P eight relay lock managed outputs: M8 fused at 3A/ea, M8P Class II Power limited at 2.5A/ea – Individually selectable outputs on dual voltage systems | |
| Supervision | AC input, DC1, and DC2 output Low battery and battery presence supervision (form C contacts) AC fail supervision (form C contacts) System Fault, AC Fault, Ground Fault, Reverse Battery | |
| External Indicators | AC on master on/off switch | |
| Battery Charging | Maximum charge current 1.0 amp Maximum battery capacity 40Ah Independent built-in charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup | |
| Regulatory Compliance | UL294 6th Edition, UL603, UL1076, ULC S318, ULC S319 | |
| Access Panel Mounting | Slot for mounting either one (1) 2DBC, 4DBC or 8DBC controller | |
| BTU Rating | RGA75, RGA75B 33BTU/Hr | |
| Physical Dimensions | 2U rack mount (19.00"W x 3.50"H x 20.50"D) with wire management articulating arm Weight 27 lbs. | |
| Access Mounting | (2) M4000 or (1) M2150 controller | |

Drawer layout example of 8 door single voltage



Drawer layout example of 4 door dual voltage managed system



Monitor power, battery, outputs

INTERNAL POWER DISTRIBUTION options

D8 - DISTRIBUTED POWER TO ACCESS CONTROLLER

Eight individually protected power outputs

- D8, F8 Fused at 3A per output
- D8P, F8P Class 2 power limited at 2.5A per output

Visual Indicators

- DC Presence: Green LED per output

Removable terminals

- Accepts #12 to #24 AWG

C8 / M8 - CONTROL OUTPUTS FOR LOCKS

8 access control trip inputs

8 individually protected lock control outputs

- C8 Fused at 3A per output
- C8P Class 2 power limited at 2.5A per output

Each input may be programmed to respond to:

- Application of voltage between 9 and 33VDC
- Removal of voltage between 9 and 33VDC
- Normally open dry contact transition
- Normally closed dry contact transition

Each output may be programmed for the following modes:

- Voltage output from power supply one
- Voltage output from power supply two
- Fail-safe, Fail-secure
- Fire alarm over ride for egress lock control

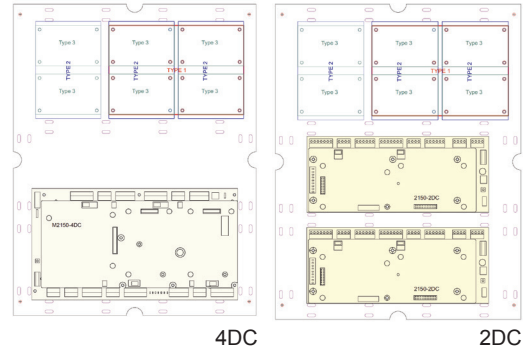
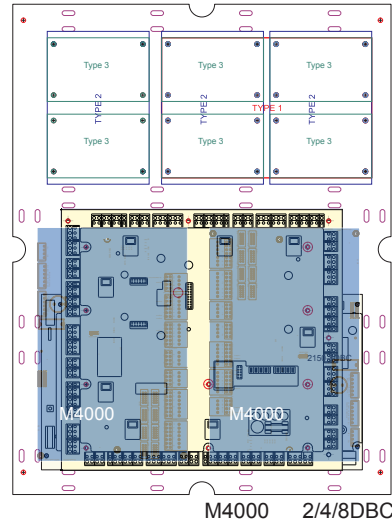
Visual Indicators

- DC Presence: Green LED per output
- Fault Condition: Yellow fault LED

Removable terminals

- Accepts #12 to #24 AWG

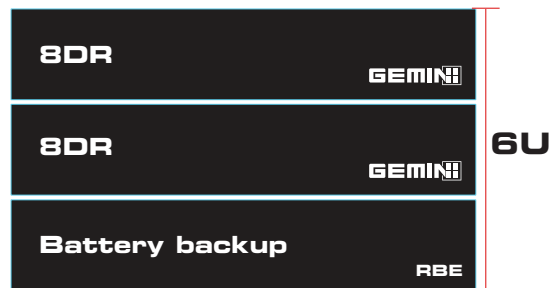
BACKPLATE CONFIGURATION OPTIONS



EXPANSION | BATTERY BACK-UP

8-16 Doors

- Stack multiple Gemini rack mounts for higher door counts
- Add RBE battery enclosure for battery back up



16 door battery back up

FAULT DETECTION AND REPORTING

DETECTED FAULT CONDITIONS (ALL MODELS)

AC Power

- AC loss, AC low, Master AC power switch

DC Power and System

- Abnormal or loss of power supply operation
- Over current, over temperature condition
- DC output high, low
- Battery Presence, Earth Ground (user optional)
- Reversed battery condition, blown fuse or loss of output voltage on selected accessory boards (detected on the power supply)

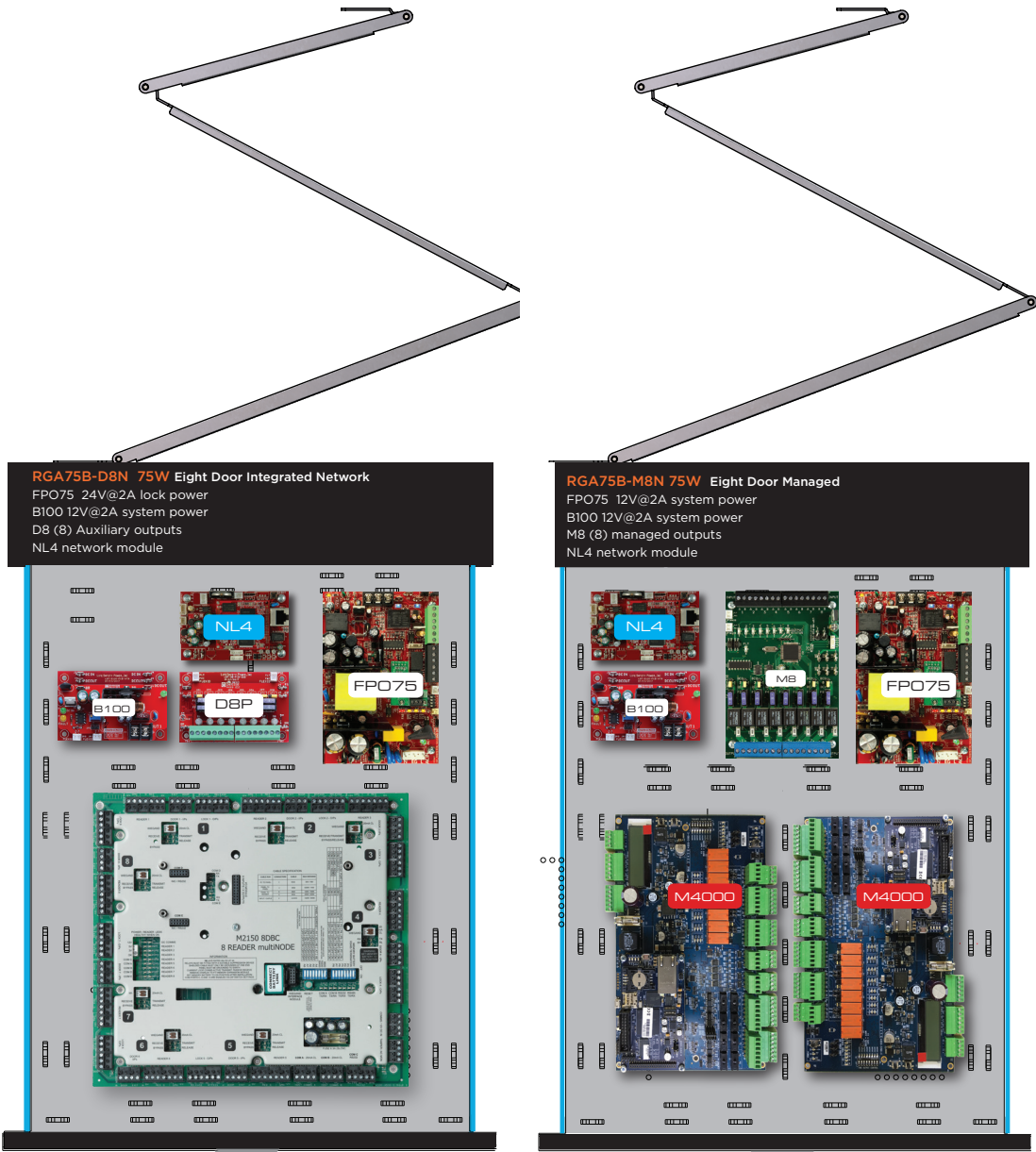
WIRE MANAGEMENT

Wire tie points

- Drawer tie down points for access wiring
- Back chassis tie down points secures wire bundle

Cable management articulating arm

- Bracket with tie wrap points secures access wiring into drawer



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Specifications subject to change without notice.

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