



## Overview

The RGA150 Series is a 150W 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) or FAI drop (F8)
- 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 alert external room temperature

## Fire Alarm Interface

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

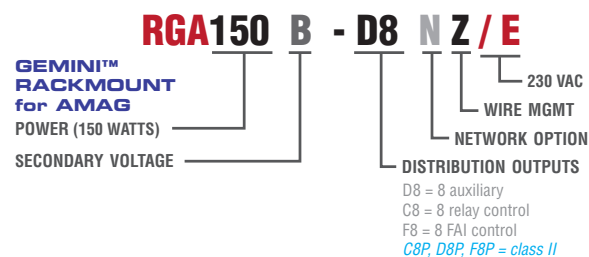
## Comprehensive fault detection and reporting

- 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
RGA150-C8Z	Basic*	12V DC	12A/12V 4A/12V	2		8
RGA150-D8Z				2	8	
RGA150-F8Z				2		8
RGA150-D8NZ				2	8	
RGA150-F8NZ				2		8
RGA150B-D8Z		12V and 24V DC	4A/12V and 4A/24V	2	8	
RGA150B-F8Z				2		8

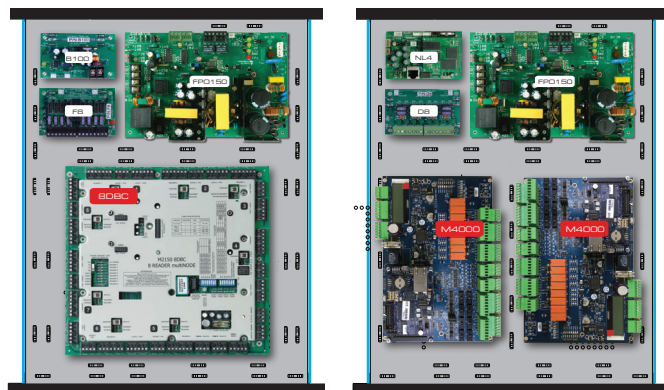
Single voltage - factory set to 12VDC

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

Networking - monitors power supply and battery set\*

For CE 230VAC option, add ' / E' suffix to model number, i.e RGA150-D8Z/E

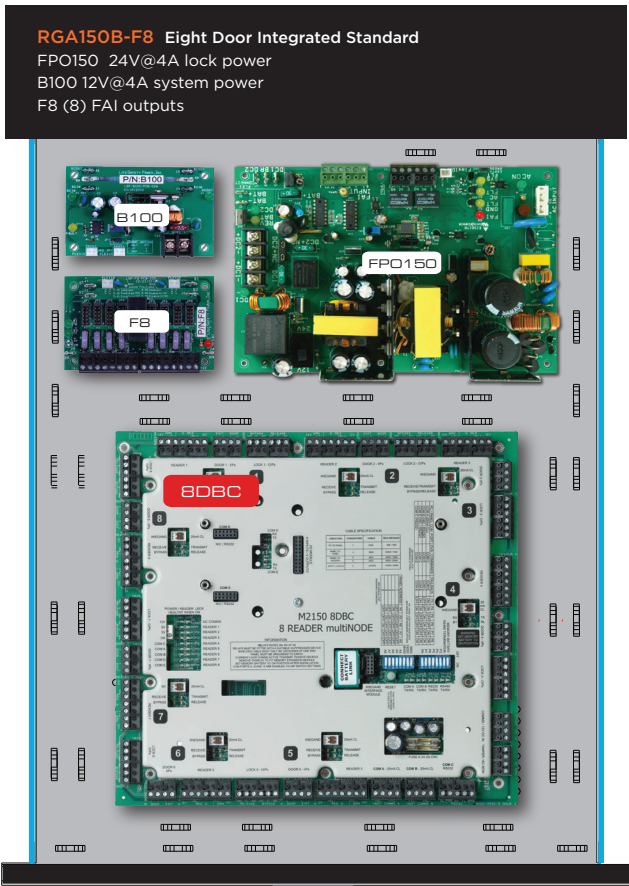
\*Due to drawer space constraints, M8 module can't be added in a network configuration



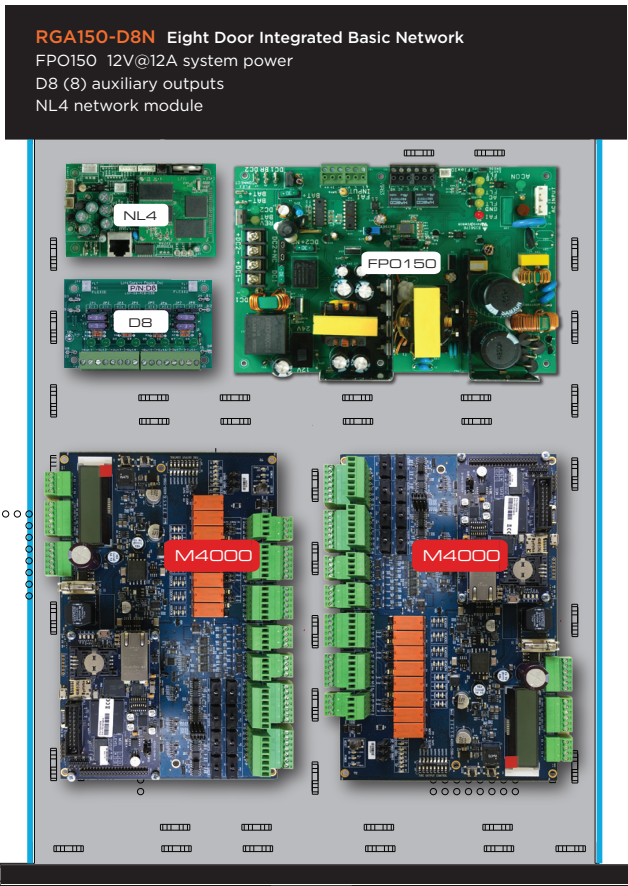
**Specifications**

<b>Input Power</b>	Input 120/230 VAC 50/60 Hz   170 Watts Thermal overload protection / Short circuit protection
<b>Output Power</b>	RGA150 150 Watts: 12 amps at 12 VDC RGA150B 150 Watts: 4 amps at 12 VDC <u>and</u> 4 amps at 24 VDC (factory set to 24VDC and 12VDC) (allows 1A per AMAG board, 0.50A per lock. If controller draws is less, lock power is more)
<b>Internal Power Distribution</b>	D8/D8P eight auxiliary outputs: D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea F8/F8P eight FAI control outputs: F8 fused at 3A/ea, F8P 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 – Individually selectable outputs on dual voltage systems
<b>Supervision</b>	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
<b>External Indicators</b>	AC on master on/off switch
<b>Battery Charging</b>	Maximum charge current 2.0 amp   Maximum battery capacity 80Ah 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
<b>Regulatory Compliance</b>	UL294 6th Edition, UL603, UL1076, ULC S318, ULC S319
<b>Access Panel Mounting</b>	Slot for mounting either one (1) 2DBC, 4DBC or 8DBC controller or one (1) 4DC controller or two (2) 2DC controllers
<b>BTU Rating</b>	RGA150, RGA150B 66BTU/Hr
<b>Physical Dimensions</b>	2U rack mount (19.00"W x 3.50"H x 20.50"D) with wire management articulating arm   Weight 27 lbs.
<b>Access Mounting</b>	(2) M4000 or (1) M2150 controller

*Drawer layout example of 8 door dual voltage*



*Drawer layout example of 8 door dual voltage managed system*



*Monitor power, battery*

## 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 - 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

### F8 - DISTRIBUTED FAI DROP

#### Eight individually protected power outputs

- F8 Fused at 3A per output
- 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

## FAULT DETECTION AND REPORTING

### DETECTED FAULT CONDITIONS (ALL MODELS)

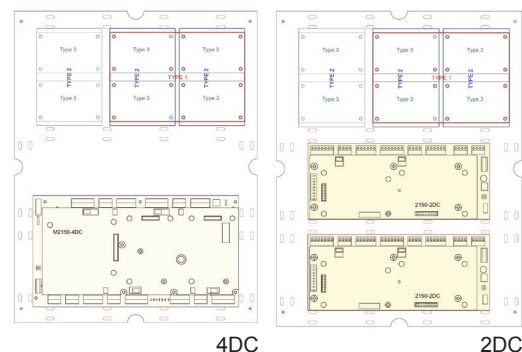
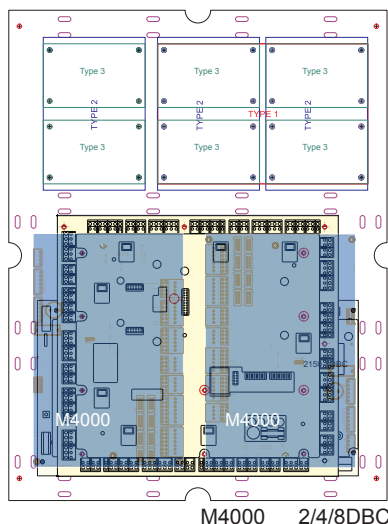
#### AC Power

- 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)

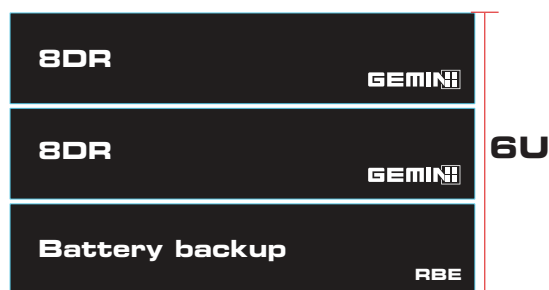
## BACKPLATE CONFIGURATION OPTIONS



## 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

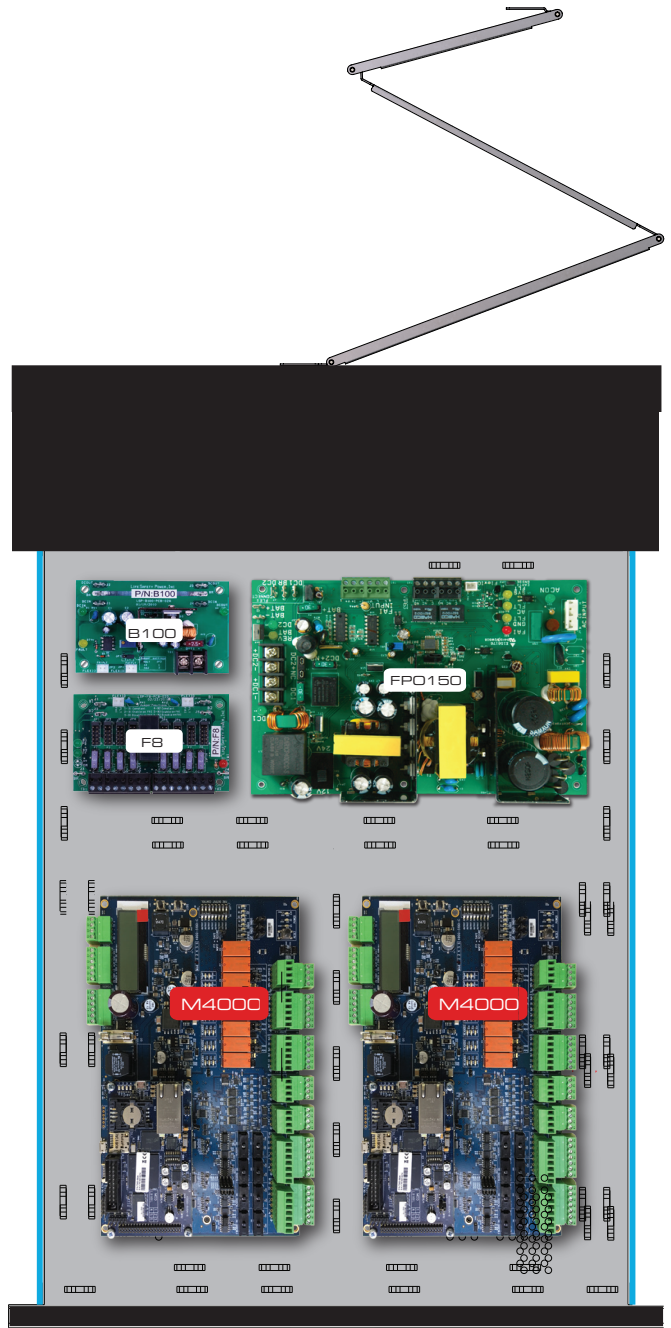
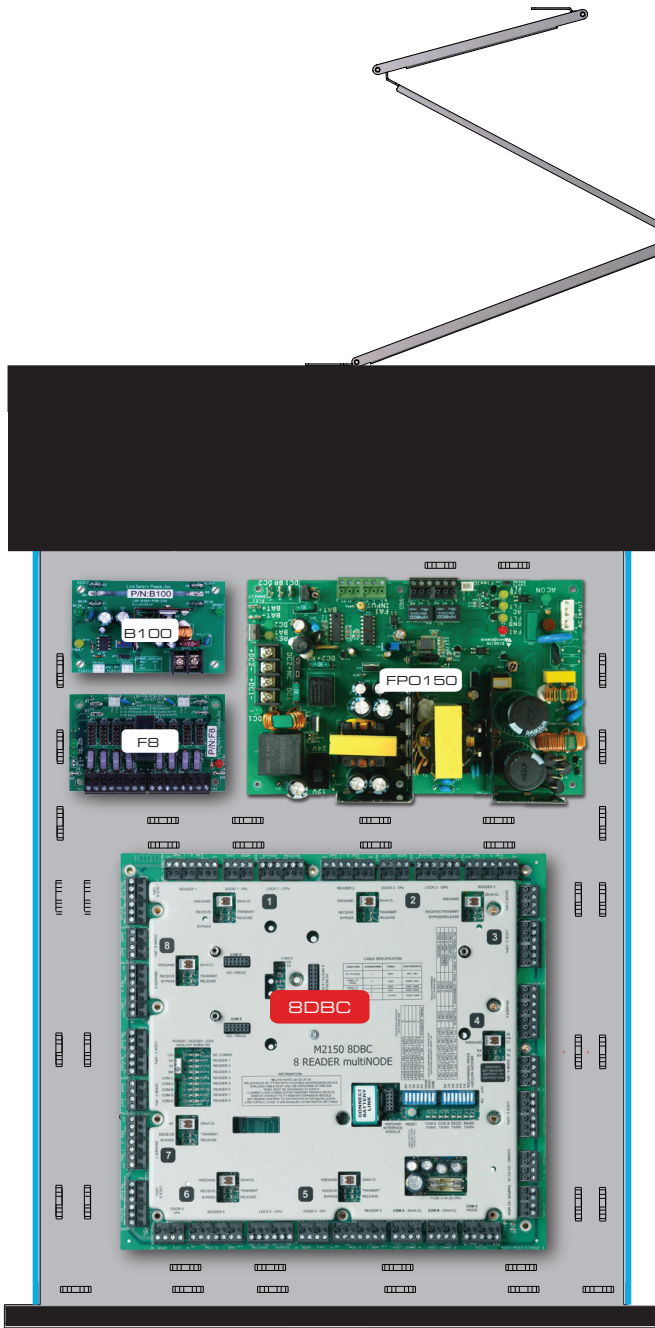
## WIRE MANAGEMENT

### Wire tie points

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

### Cable management articulating arm

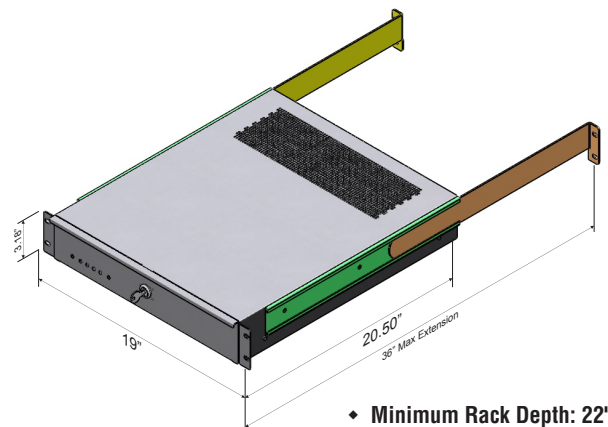
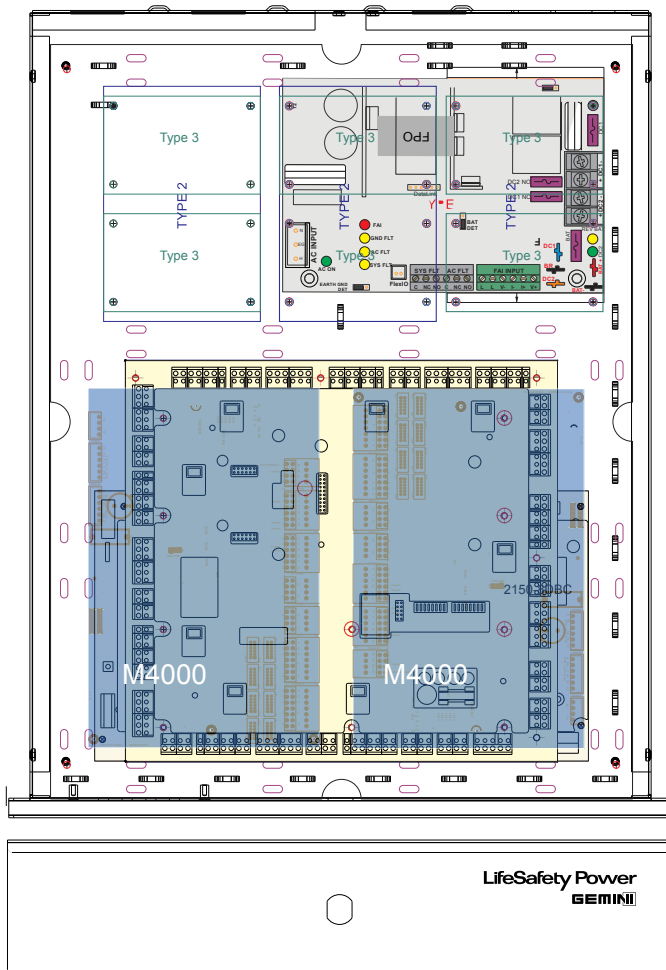
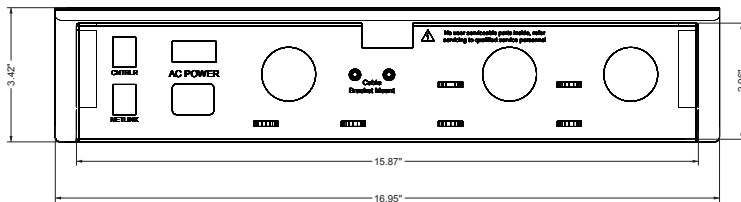
- Bracket with tie wrap points secures access wiring into drawer



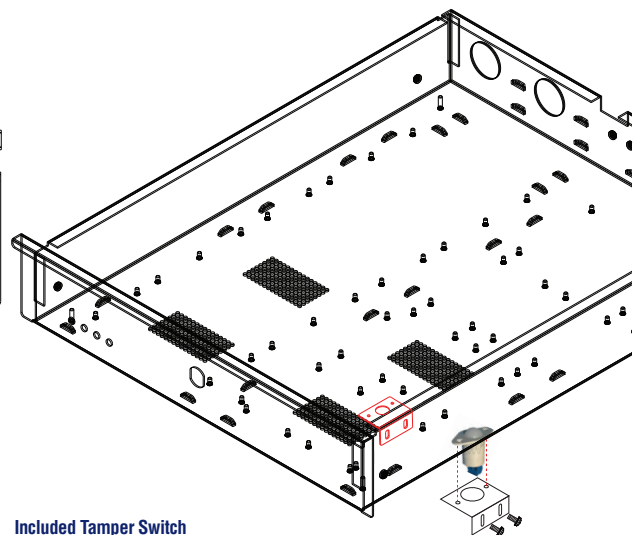


## Mechanical

2U rack mount 19.00"W x 3.50"H x 20.50"D  
Weight 27 lbs.



♦ Minimum Rack Depth: 22"



Included Tamper Switch

**[lifesafetypower.com](http://lifesafetypower.com)**

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