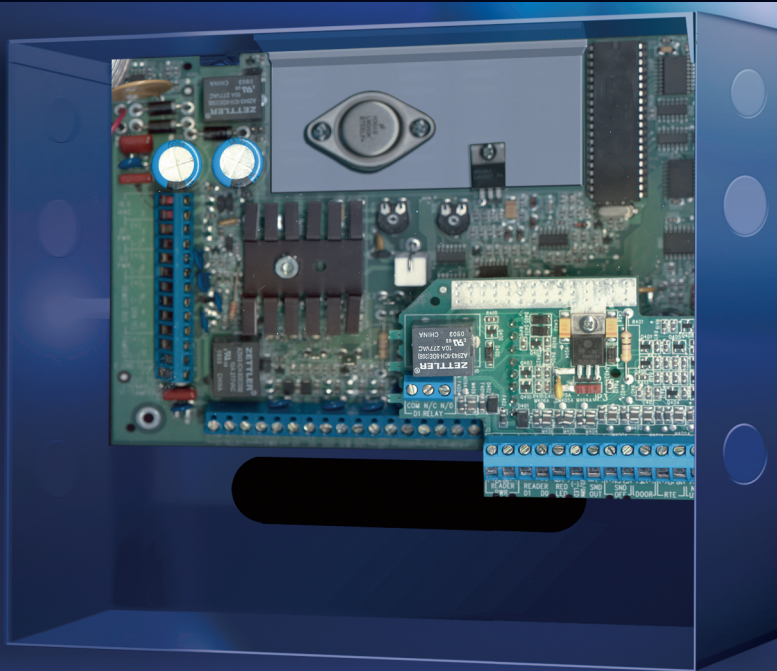


# Add up to 8 Doors of Access Control to Gemini Panels



- Economical access control, easily added & installed
- Seamless Integration with Gemini Control Panels
- Single site programming and shared database
- Fast transaction speeds
- Power for prox readers & mag locks built into GEM-Access Control Module
- Available in money-saving kits with HID Prox readers and cards or Gemini-PX Prox Readers and cards



NAPCO GeminiAccess™ Access Control Module, # GEM-ACM1D adds integrated access control to the burglar alarm functions of the GEM-X255 255-Zone Hybrid Control Panel, enabling the easy creation of a fast, economical seamless system with shared database and programming. Up to 8 doors of access can be added to the GEM-X255 System. (In later GEM-ACCESS versions, GEM-9600 and 3200 panels will also be supported.) The GeminiAccess Module is housed in its own compact metal enclosure and includes a power supply for the unit, as well as power for the prox readers & mag locks in the system for easy, cost-effective installation. Each GEM-ACM1D Module provides 1 door of access, expanded for a second controlled door by simply adding a Plug-In PCB, model no. GEM-2D (pictured above). The Gemini Security System Control Panel is made compatible with easy replacement of its standard EPROM with a GeminiAccess software enhancement upgrade.

GeminiAccess provides controlled access to a door by releasing a mag or electric strike when a valid Prox card or Prox keyfob is presented to an HID or GEM-PX proximity reader. Access control is integrated with the burglary functions of the GEM-X255. GeminiAccess enables specially authorized prox card holders to arm and disarm the system with their card. Plus, by sharing the door contact with the burg. system, one contact will both monitor the door and annunciate and report alarms and troubles.

Providing unsurpassed transaction speeds for processing cardholders, GeminiAccess performs all access decisions immediately, independent of the Gemini Alarm Panel. Unlike competitive models, if the bus is cut, NAPCO Gem-Access will continue to provide uninterrupted access control in a standalone capacity. The number of users and the number of scheduled events is based on Gemini Panel capacity, so used with the Gemini X255, the number of users is 195 and the events are 255. The Gemini Burg. and GeminiAccess systems are both programmed from a single site, using NAPCO PCD-Windows software. The GEM-ACM1D requires the panel for uploading user codes/attributes (and their associated schedules), uploading door attributes, digital dialer reporting and all Keypad/ACM trouble/information displays. The panel's Event Scheduler is used to control user access by scheduling "User Off" and "User On" events.

Up to 4 GEM-ACM1D modules can be connected to a GEM-X255 control panel via standard, unshielded keypad bus wire. Each expanded Gem-Access module, ie., with installed GEM-2D plug-in PCB, is capable of controlling access through 2 doors and uses a keypad location in the system for communication. Each 2-door access unit is fully supervised and reports specific troubles at system keypads (AC/DC Power, Battery Troubles), as well as tamper. And, the 2 prox readers controlled by each expanded GeminiAccess Module can be programmed to function independently on different doors, or together,



Manufacturing great security products is all we do. It's that simple.™

## PRELIMINARY SPECIFICATIONS:

The GeminiAccess System supports HID standard 26 bit format and/or NAPCO Gemini 36 bit format.

### Recommended prox readers:

- HID Prox Point Plus Model 6005B
- NAPCO GEM-PX Prox Reader with Alarm Status LEDs

The GEM-ACM1D also supports the use of any "Request to Exit" device and any UL 294 listed mag lock.

### GEM-PX Prox Reader with Alarm Status Indicators

The unique GEM-PX Prox Reader includes LED status indicators for both the access and alarm system. The LED's function as follows:

- **RED** – Displays System Armed (on solid), system disarmed, (off) and system in alarm (blinking).
- **GREEN** – Displays Ready to Arm (on solid), not ready (off).

(Note: Alarm Status indication is a programmable option by Module and may be eliminated in undesirable instances, for example, where the reader is visible from outside the premises, etc.)

### GEM-ACM1D Power Supply

The GEM-ACM1D has an integral power supply which includes two primary linear regulators. The first regulator is used to power the panel, the readers and to recharge the battery. The panel and readers are supported with battery standby. The second regulator is used to supply up to 1.5A 12VDC for the door locks, which provides enough current to support two 750mA electromagnetic locks. The Door Lock Power has an option to enable battery standby with a shunt connector placed across jumper JP3 (factory default). The battery is prevented from damage caused during extended power failures with a battery drop out circuit that disconnects the battery when there is no AC present and battery voltage drops to approximately 9VDC. When AC is restored, the battery is automatically re-connected and begins to recharge. The GEM-ACM1D tests the battery under load every 4 hours and when the RESET button is pressed. The low battery condition will only restore after it passes the active test. The duration of this test is 15 seconds. The separation of the door lock power from the rest of the system reduces the likelihood that turning off the power to the door lock coils will affect performance of the system. The use of linear versus switching regulators significantly reduces electrical noise that may hinder the sensitivity of proximity card readers.

### Fire System Integration

GeminiAccess includes an "Emergency Free Access" zone for integration with a fire system. The output(s) from the fire alarm system must be wired so that if there is a fire alarm or AC failure of the fire alarm system, the "Emergency Free Access Zone" is either shorted or opened. (Before installing the access control system, be sure to consult with the authority having jurisdiction to be sure to comply with all local codes.)

## SPECIFICATIONS

**Housing Dimensions:** 11"x12 1/8"x3" (28x30.8x7.6cm) HxWxD  
GEM-X255 Current Draw: 5mA

**Operating Temperature:** 0–49°C (32-120°F)

**Input Power:** 16.5VAC via CLASS 2 Plug-In 40VA or 50VA Transformer

**Door Zone Loop Voltage:** 10-13VDC

**Door Zone Loop Current:** 2.4mA with 2.2K EOLR

**Door Zone Loop Resistance:** 300 ohms maximum

**Combined Door Lock Power:**

D1 PWR (terminals 3+ and 4-) + D2 PWR (terminals 5+ and 6-)

**Voltage Rating:** 12VDC

**Maximum Current:** 1.5A

**Battery Standby Time:**

JP3 not installed: Standby Time = 0\*

JP3 installed (factory default)

**Reader 1 PWR: READER 1 PWR (terminals 17+ and 18-)**

**Voltage Rating:** 12.5VDC to 11.7VDC with JP1 set to 12V (default). 5V with JP1 set to 5V.

**Maximum Current:** 125mA

**Battery Standby Time:**

JP3 not installed and 4AH battery used = 4 Hour\*

JP3 installed (factory default)

**Reader 2 PWR\*\*\*: READER 2 PWR (terminals 35+ and 36-)**

**Voltage Rating:** 12.5VDC to 11.7VDC with JP4 set to 12V. 5V with JP4 set to 5V.

**Maximum Current:** 125mA

**Battery Standby Time:**

JP3 not installed and 4AH battery used = 4 Hour\*

JP3 installed (factory default)

### Typical Applications:

**App. Example 1** – uses a single prox reader on the exterior of the restricted area and a "Request to Exit" button within the restricted area. This method only requires a single reader for each access door. This method is limited in that only entrance via the card reader is logged or printed (requires GEM-PRINT module). The use of the "Request to Exit" button is not logged.

**App. Example 2** – uses 2 prox readers (one reader mounted inside and another outside the restricted area); both connected in parallel to a single card reader interface. This method requires presenting the credential for both entry and exit from the restricted area. Each presentation of the credential is logged and optionally printed (requiring GEM-PRINT module on the system).

### Ordering Information:

**GEM-ACM1D** Access Control Module for 1 Door Module in metal enclosure, w/ power supply, transformer and software enhancement upgrade EPROM for Gemini Alarm Panel.

**GEM-2D** 2nd Door Plug-in PCB, for use in above.

**GEM-1DKIT** Economical GEM-PROX Kit Module in enclosure, w/ power supply, transformer, Panel Prom, GEM-PX Prox Reader with Status LED Indicators, 25 Gemini Prox Cards.

**GEM-1DKITA** HID Reader Kit As above with HID Reader and 25 HID 1326 Prox. Cards

**GEM-PX** Gemini Prox Reader with Access and Alarm Status Indicators

**GEM-PXC/50** 50 Additional Gemini 36 Bit Prox Cards

**GEM-H1326** HID Prox Reader

**GEM-H1326C/100** 100 Add'l 26 Bit Prox Cards



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\* UL installations require JP3 to be removed. \*\*\* Requires GEM-2D to be installed. Preliminary specifications, subject to change.  
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