

## FEATURES

- ▶ Designed for advanced access and alarm control applications
- ▶ On-board Ethernet 10/100 BaseT port
- ▶ Embedded web server
- ▶ Anti-passback capabilities
- ▶ Supports up to 500,000 cards with the addition of an SD card (default 1000 cards)
- ▶ Supports up to 50,000 card transaction with the addition of an SD card
- ▶ Unlimited access levels
- ▶ 8 on-board supervised input (expandable to 40)
- ▶ 8 on-board outputs (expandable to 24)
- ▶ Dedicated tamper input
- ▶ Online firmware upgrade
- ▶ Backup battery
- ▶ Supports up to 8 doors, each with an IN reader and OUT reader
- ▶ Support for cards of different format
- ▶ Embedded web server or PACOM host software for easy configuration



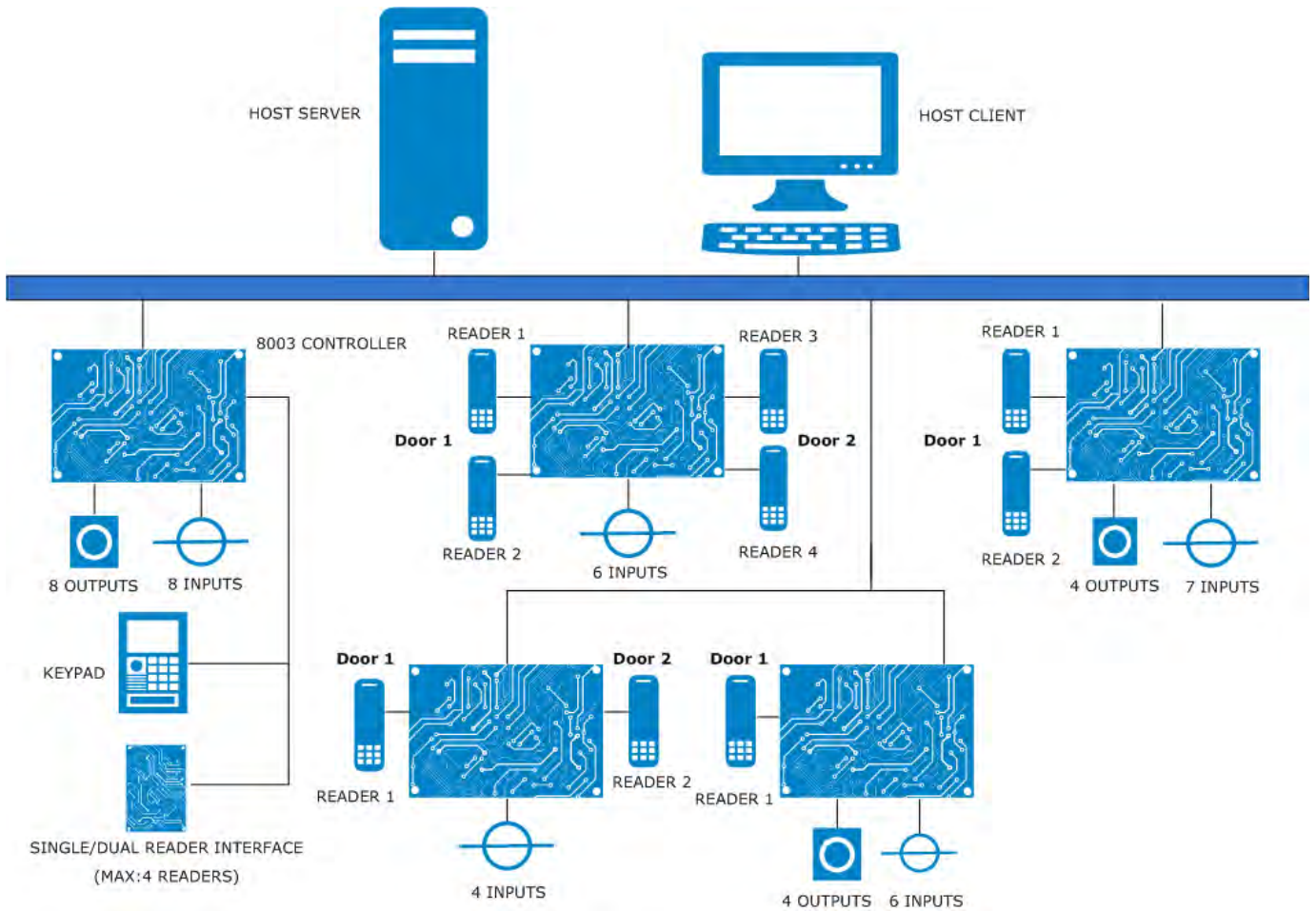
The PACOM 8003 is an intelligent IP-enabled hybrid controller that provides intrusion detection and access control. The 8003 Controller is built using PACOM-Edge technology, which represents a new family of devices enabling advanced security capabilities across an organization's Ethernet backbone. The IP capability means there is a reduced need for traditional security cabling ensuring convenient deployment and extensive scalability.

As an alarm device, the 8003 offers up to 8 configurable, 5-state inputs and 8 outputs comprising 2 relays and 6 open collectors. Inputs can be expanded up to 96 and outputs can be expanded to up to 40 via the addition of on-board expansion modules and/or remote I/O devices.

The 8003 also offers the flexibility of dual channel reporting, allowing users to simultaneously communicate events to multiple systems in real-time. The 8003 reports events and alarms to the PACOM host software. Using dual channel reporting, the 8003 can also send messages to a second monitoring system that accepts SIA or CID format messages. The 8003 can operate stand-alone for smaller or remote environments or can be easily incorporated as part of a fully integrated alarm and access control system for larger buildings or multi-site applications. It has been specifically engineered so that it can be conveniently installed in any location rated for a 3U rack mount device.

***Built using the PACOM-Edge technology, the 8003 intelligent IP-enabled hybrid controller is designed for advanced alarm and access control applications with PACOM GMS and Unison.***

# ARCHITECTURE



## DEFAULT CONFIGURATION

| POINT NUMBER | INPUT FUNCTION        | OUTPUT FUNCTION    |
|--------------|-----------------------|--------------------|
| 1            | General Purpose       | Relay (door 1)     |
| 2            | General Purpose       | Relay (door 2)     |
| 3            | Door Contact (door 2) | Green LED (door 1) |
| 4            | Strike (door 2)       | Red LED (door 1)   |
| 5            | Egress/RTE (door 2)   | Buzzer (door 1)    |
| 6            | Door Contact (door 1) | Green LED (door 2) |
| 7            | Strike (door 1)       | Red LED (door 2)   |
| 8            | Egress/RTE (door 1)   | Buzzer (door 2)    |

## TECHNICAL SPECIFICATIONS

### ELECTRICAL

|                           |  |
|---------------------------|--|
| Input Voltage             | 9 to 36VDC @ 2A                                  |
| Available Auxiliary Power | 1000mA @ 12VDC for peripheral devices            |
| Current Consumption       | 210mA @ 12VDC typical, excluding expansion cards |
| Power Protection          | Resettable fuse 3.0A                             |

### BATTERY

|                 |  |
|-----------------|--|
| Internal Memory | CR1216 3V lithium type<br>Provides 100 days of backup                        |
| Backup Battery  | Lithium CR1216 3V battery provided to protect Real Time Clock (RTC) and SRAM |

## ENVIRONMENTAL

|                       |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -10 to +55°C (14 to 131°F)          |
| Maximum Humidity      | 93% (non-condensing) @ 40°C (104°F) |

## PHYSICAL

|               |   |
|---------------|---|
| Dimensions    | 160 x 100 x 22mm (6.3 x 3.9 x 0.9")<br>160 x 100 x 32mm (6.3 x 3.9 x 1.3") with expansion cards |
| Packed Weight | 175g (6.2oz)  |

## COMMUNICATIONS

|                  |   |
|------------------|---|
| Network Protocol | Ethernet (10/100 auto switching), PPP   |
| Modem            | N/A (PACOM 8209 recommended)  |
| Port             | RS485 (each device line can support up to 32 PACOM RS485 peripheral devices)<br>RS232<br>Ethernet<br>USB Device<br>USB Host<br>SD Card Slot<br>PACOM Expansion Slots (x2) |

## SIGNALING

|                         |                      |
|-------------------------|----------------------|
| On-Board Inputs         | 8 (expandable to 40) |
| Total Inputs Supported  | 96                   |
| On-Board Outputs        | 8 (expandable to 24) |
| Total Outputs Supported | 40                   |

## SECURITY

|               |                           |
|---------------|---------------------------|
| Tamper Switch | On-board support provided |
| Encryption    | AES-128, AES-256          |

## MISCELLANEOUS

|                           |   |
|---------------------------|---|
| Memory                    | 321MB (expandable)<br>All persistent configuration is stored in NAND Flash located at U12 <ul style="list-style-type: none"><li>• 1MB SRAM</li><li>• 256 MB Non-Volatile Flash Memory (storage)</li></ul> |
| Dual Flash ROM            | Allows 2 versions of firmware to be stored and enables remote upgrades to be performed without any downtime.  |
| Indicators                | 7 status indicator LEDs<br>Relay outputs, Ethernet (speed and link status) and RS-485 (Tx, Rx)  |
| Expansion Card Connection | 2 x 20-pin (suitable for 8000 Series Expansion Cards except 8202R-001-UL PSTN modem)  |
| Programming               | Configuration via embedded web server or PACOM host software.<br>Intelligent 'Auto Configure' function in the web server uploads the 8003 device configuration.   |
| Expressions / Macros      | Unlimited   |
| Alarms                    | Inputs: 96 max<br>Outputs: 40 max<br>Intrusion Areas: Unlimited<br>Alarm Keypads: 32<br>RS485 Bus: 3 Channels (32 max per bus)  |

## DATABASE

|                           |   |
|---------------------------|---|
| Card/User Capacity        | 1000 default (500,000 with SD card)           |
| Card Transaction Capacity | 1000 default (50,000 with SD card)            |
| Access Levels             | Unlimited                                     |
| Holidays                  | Unlimited dates, 5 holiday types              |
| Time Schedules            | 256 each with up to 10 start and stop periods |

## SUPPORTED

|                    |   |
|--------------------|---|
| Card Formats       | 26-bit Wiegand, Wiegand Custom (up to 128-bits)   |
| Expansion Modules  | 8201 GPRS Expansion Module<br>8203 4-Output Expansion Module<br>8204 8-Input Expansion Module<br>8205 RS232/RS485 Expansion Module<br>8207 Star Coupler Expansion Module<br>8209 PSTN Modem Expansion Module<br>8220 Dual Expansion |
| Peripheral Devices | 1064 Single Door Controller<br>1068 2-Input/1-Output Module<br>1076 8-input/4-output Module<br>1076 2-Door Controller<br>8101 Series Keypads<br>8303 Monitoring Power Supply<br>8501 Input/Output Module<br>8603 Door Controller    |

## COMPLIANCE AND ACCREDITATION

RoHS, EMC | CE | C-Tick | FCC Part 15 CLASS B ANSI C63.4-2009, UL | EN 55032:2015 | EN 50130-4:2011+ A1:2014 | EN 61000-3-2: 2014 | EN 61000-3-3: 2013 | EN 60950: 2006: A1, A2, A11 & A12

EN 50131-3:2009 including the related requirements of: EN 50131-1:2006 + A1:2009 | EN 50130-4:2011 + A1:2014 | EN 50130-5:2011

EN 50136-2:2013 | EN 50131-10:2014 including the related requirements of: EN 50136-1:2012 | EN 50130-4:2011 + A1:2014 | EN 501310-5:2011

## ORDERING INFORMATION

| PART NUMBER | TYPE CODE | DESCRIPTION                 |
|-------------|-----------|-----------------------------|
| 300 040 121 | 8003R-001 | 8003 Intelligent Controller |