

## 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



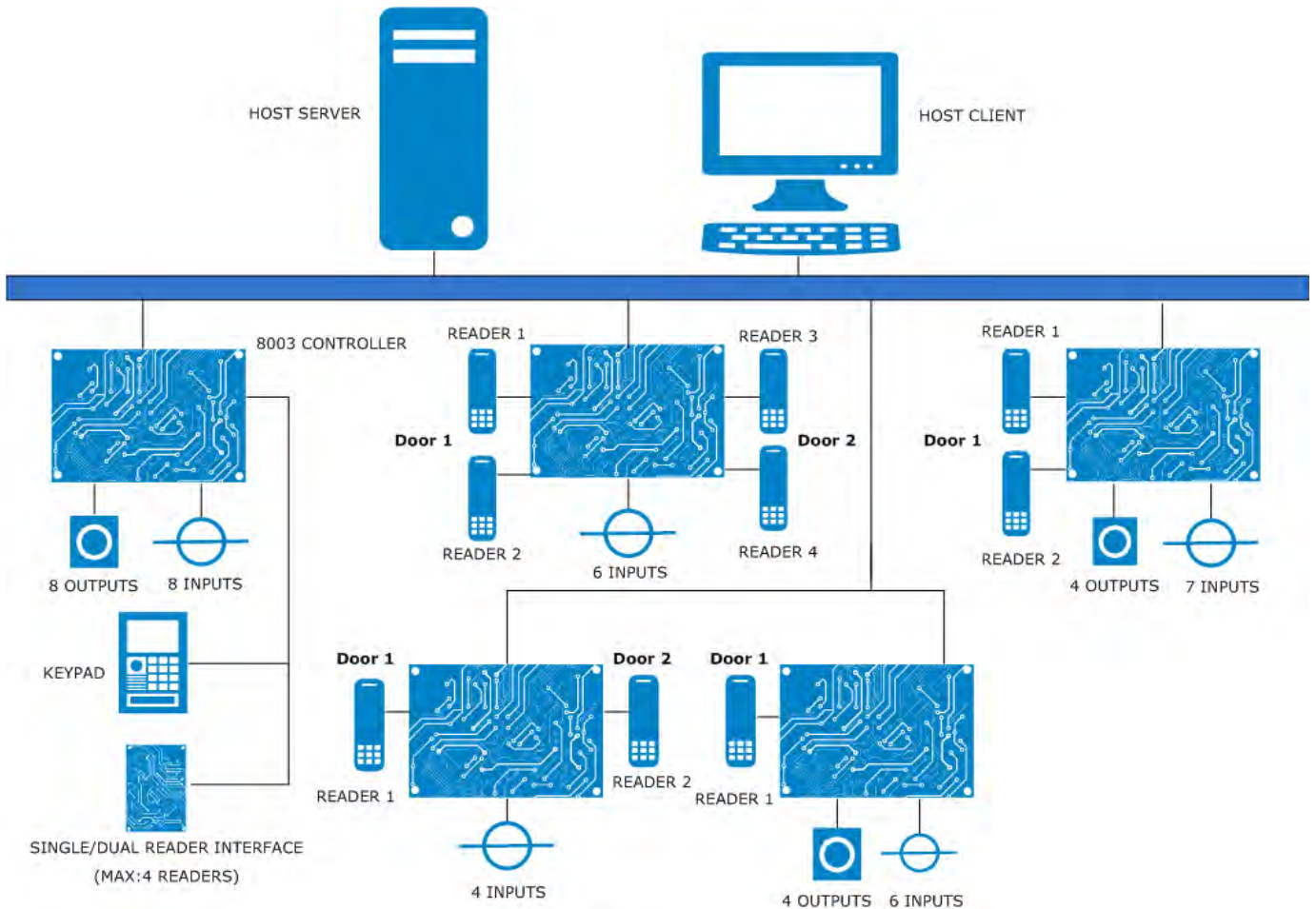
The PACOM 8003 is an intelligent IP-enabled hybrid controller that provides intrusion detection and access control. The 8003 Controller is built using PACOM-Edge technology, which represents a new family of devices enabling advanced security capabilities across an organization's Ethernet backbone. The 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	Egress/RTE (door 2)	Red LED (door 1)
5	General Purpose	Buzzer (door 1)
6	Door Contact (door 1)	Green LED (door 2)
7	Egress/RTE (door 1)	Red LED (door 2)
8	General Purpose	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 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") 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) RS232 Ethernet USB Device USB Host SD Card Slot 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) 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 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. Intelligent 'Auto Configure' function in the web server uploads the 8003 device configuration.
Expressions / Macros	Unlimited
Alarms	Inputs: 96 max Outputs: 40 max Intrusion Areas: Unlimited Alarm Keypads: 32 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 8203 4-Output Expansion Module 8204 8-Input Expansion Module 8205 RS232/RS485 Expansion Module 8207 Star Coupler Expansion Module 8209 PSTN Modem Expansion Module 8220 Dual Expansion
Peripheral Devices	1064 Single Door Controller 1068 2-Input/1-Output Module 1076 8-input/4-output Module 1076 2-Door Controller 8101 Series Keypads 8303 Monitoring Power Supply 8501 Input/Output Module 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