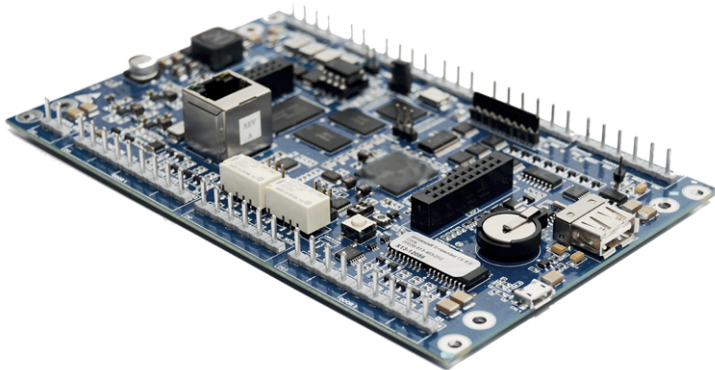




## DATASHEET

### 8003 INTELLIGENT CONTROLLER



#### MAIN 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
- ▶ Supports up to 50,000 card transaction
- ▶ Unlimited access levels
- ▶ Eight on-board supervised inputs (expandable to 96)
- ▶ Eight on-board outputs (expandable to 40)
- ▶ Dedicated tamper input
- ▶ Online firmware upgrade
- ▶ Backup battery

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

#### PACOM 8003 DOOR CONTROLLER

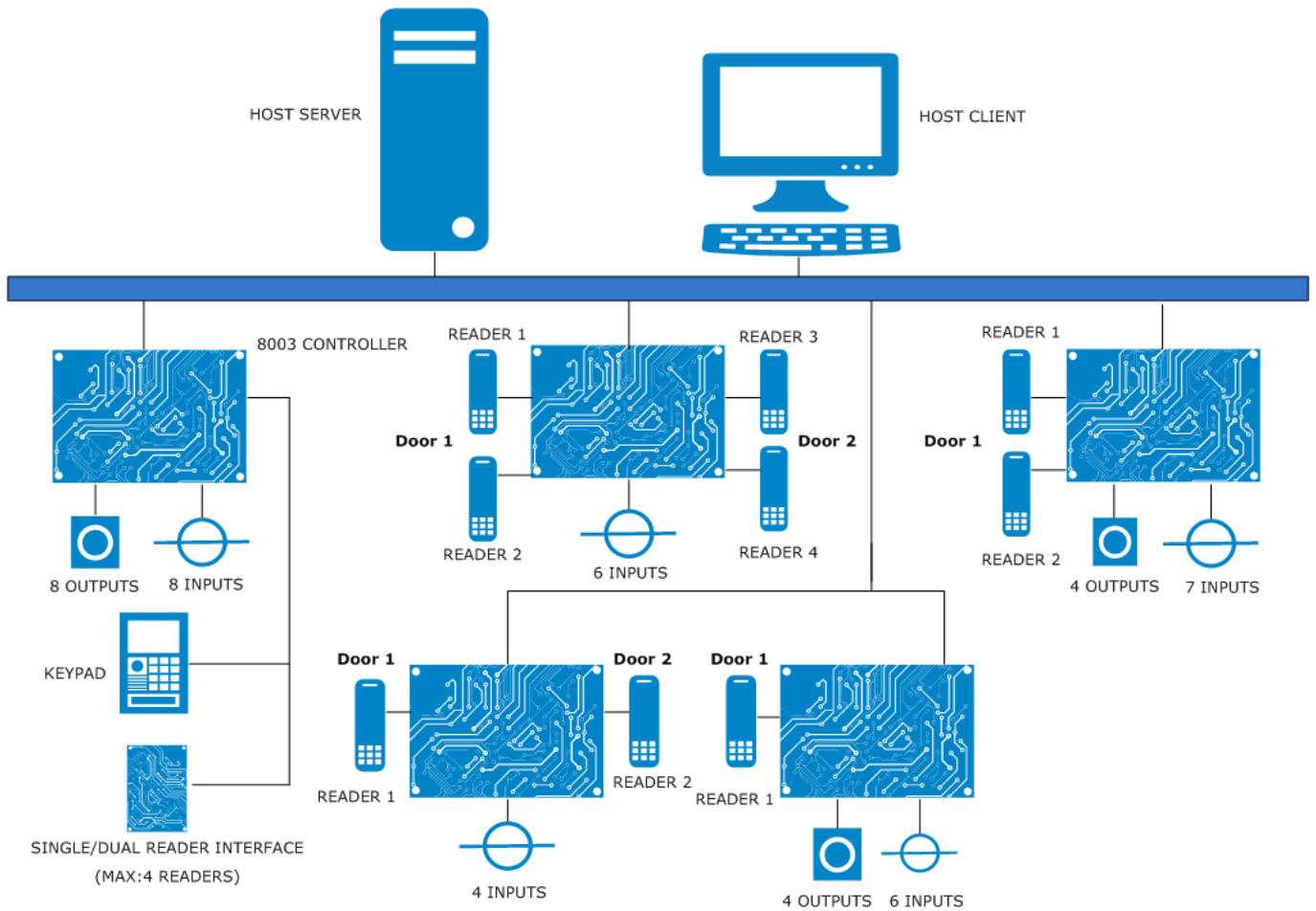
The PACOM 8003 is an intelligent IP-enabled hybrid controller that provides intrusion detection and access control for up to eight doors. The 8003 is built using PACOM-Edge technology, which represents a new family of devices enabling advanced security capabilities across an organization's Ethernet backbone. The IP capability means there is a reduced need for traditional security cabling ensuring convenient deployment and extensive scalability. Configuration of the 8003 is easily achieved using the embedded web server or PACOM host software.

As an access control device, the 8003 can support up to eight doors, each with an IN reader and OUT reader - satisfying the needs of environments where users may want anti-passback. The IP-enabled controller supports 1000 cards by default, which can be easily scaled up to support 500,000 by adding an SD Card. The 8003 supports cards of different formats and can support up to 50,000 card transactions by adding an SD card.

As an alarm device, the 8003 offers up to eight configurable, five-state inputs and eight outputs comprising two relays and six 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 Intelligent controller 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. The 8003 has also been specifically engineered so that it can be conveniently installed in any location rated for a 3U rack mount device.



## 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

### 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
- Card formats: 26 bit Wiegand, HID Corporate 1000 (35 bit) Wiegand Custom ( up to 32 bits)

### Onboard I/O:

- 16 readers, 8 doors - (Wiegand D0/D1, door contact, egress, door lock, green/red LED control, buzzer)
- Inputs - 8 end-of-line monitored (default 10k, programmable from 1k to 250k)
- Outputs: 2 x relay (NO/NC), 2A@30VDC; 6 x open collector, 150mA@15VDC

### Alarm:

- Inputs: 96 max
- Outputs: 40 max
- Intrusion Areas: Unlimited
- Alarm keypads: 32
- RS485 Bus: 3 Channels (32 max per bus)

### Programming:

- Configuration via embedded web server or PACOM host software
- Intelligent 'Auto-Configure' function in the web server uploads the 8003 device configuration

### Communication:

- RJ45 Ethernet Port 10/100 BaseT
- RS485 multi-drop port for PACOM peripherals
- RS232 port for interfacing to third-party devices
- USB Port 1: USB 2.0 Type A, female. Used to support smart card reader
- USB Port 2: USB 2.0 Micro B, female. For connection to a computer for basic configuration and performing firmware updates
- SD Card Slot: Micro SD slot used to increase the number of offline cards and transactions. See Order Information section for 1GB SD card information (not supplied)
- PACOM Expansion Slot (2): For increasing I/O capacity and/or communications options. See below for supported devices

### Supported 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

### Supported Peripheral Devices:

- 8101 Series Keypads
- 8303 Monitoring Power Supply
- 8501 Input/Output Module
- 8603 Door Controller
- 1068 2-Input/1-Output Module
- 1076 8-input/4-output Module
- 1064 Single Door Controller
- 1076 Two Door Controller

### Power Status Monitoring:

Dedicated pin for connection to PACOM 8303/8305 power supplies to report AC fail, battery low and battery missing messages

### Weight:

150g (5.3oz)

### Processor:

ARM9 32bit@400MHZ

### Memory:

- 1MB SRAM
- 256 MB Non-Volatile Flash Memory (storage)

### Power Input

9 to 36VDC

### Power Consumption:

Typically 250mA@12VDC

### Power Protection:

Resettable fuse 3.0A

### Dual Flash ROM:

This allows two (2) versions of firmware to be stored and enables remote upgrades to be performed without any downtime

### Backup Battery:

Lithium CR1216 3V battery provided to protect Real Time Clock (RTC) and SRAM

### Status Indicators:

Relay outputs, Ethernet (speed and link status) and RS-485 (Tx, Rx). Status LED

### Expressions/Macros:

Unlimited

### Environment:

-10 to +55°C (14 to 122°F)  
85% +/- 5% relative humidity  
(non-condensing) @30°C (86°F)

### Dimensions

3U size (160mm W x 100mm H x 40mm D)  
(6.3" W x 3.9" H x 1.6" D)

## COMPLIANCE AND ACCREDITATION

RoHS, EMC, CE, C-Tick, FCC Part 15 CLASS B, ANSI C63.4-2009, UL 294 Ed 6.I.EN50130-4:2011+ A1:2014  
BS 8243: 2010 + A1:2014.I.PD 6662: 2017.I.EN61000-3-2:2006 + Amdt 1:2008 + Amdt 2:2009 | EN61000-3-3:2008  
EN61000-4-2:2009.I.EN61000-4-3:2006+A1:2008+A2:2010 | EN61000-4-4:2004+A1:2010 | EN61000-4-5:2006  
EN61000-4-6:2009.I.EN61000-4-11:2004 | EN55032



## ORDERING INFORMATION

PART NUMBER	TYPE CODE	DESCRIPTION
300 040 121	8003R-001	8003 Controller
300 045 030	8003L-DR	8003 Dual Reporting License
400 051 059	8003R-ENC07	8003 Controller (with Compact Enclosure and a Power Supply)
400 051 060	8003R-ENC05	8003 Controller (with Enclosure and a Power Supply)
400 051 061	8003R-ENC	8003 Controller (with Enclosure and a Monitored Power Supply)
400 053 041	8003R-UENC-UL	8003-UL Controller (with Enclosure and a Monitored Power Supply)
400 053 042	8003R-UENC-05	8003-UL Controller (with Enclosure and a Power Supply)
400 060 009	DC-08PD2	PACOM 8003 Demonstration Case
400 060 008	DC-08PD	PACOM 8003 Demonstration Case