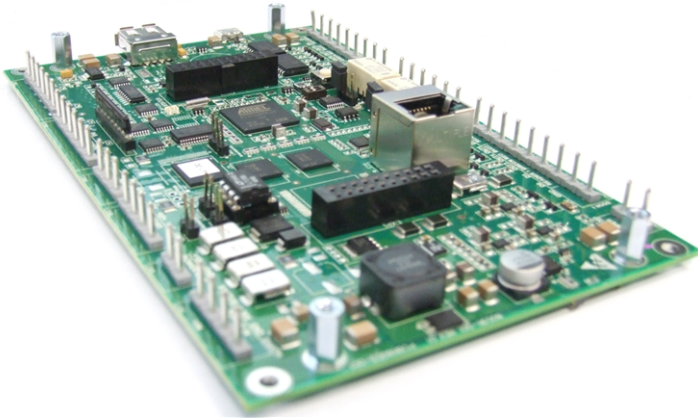




DATASHEET

8603 PACOM-EDGE INTELLIGENT IP TWO DOOR CONTROLLER



MAIN FEATURES

- ▶ Compatible with all PACOM controllers
- ▶ Configurable as a door controller and an Input Output module
- ▶ On-board Ethernet 10/100 BaseT port
- ▶ Embedded web server
- ▶ Anti-passback capability
- ▶ Supports USB Smart card reader
- ▶ Supports up to 500,000 cards
- ▶ Supports up to 50,000 card transactions
- ▶ Support up to 17 different card formats (1 fixed, 16 customizable)
- ▶ Degraded memory for up to 1000 cards
- ▶ Remote firmware upgrade

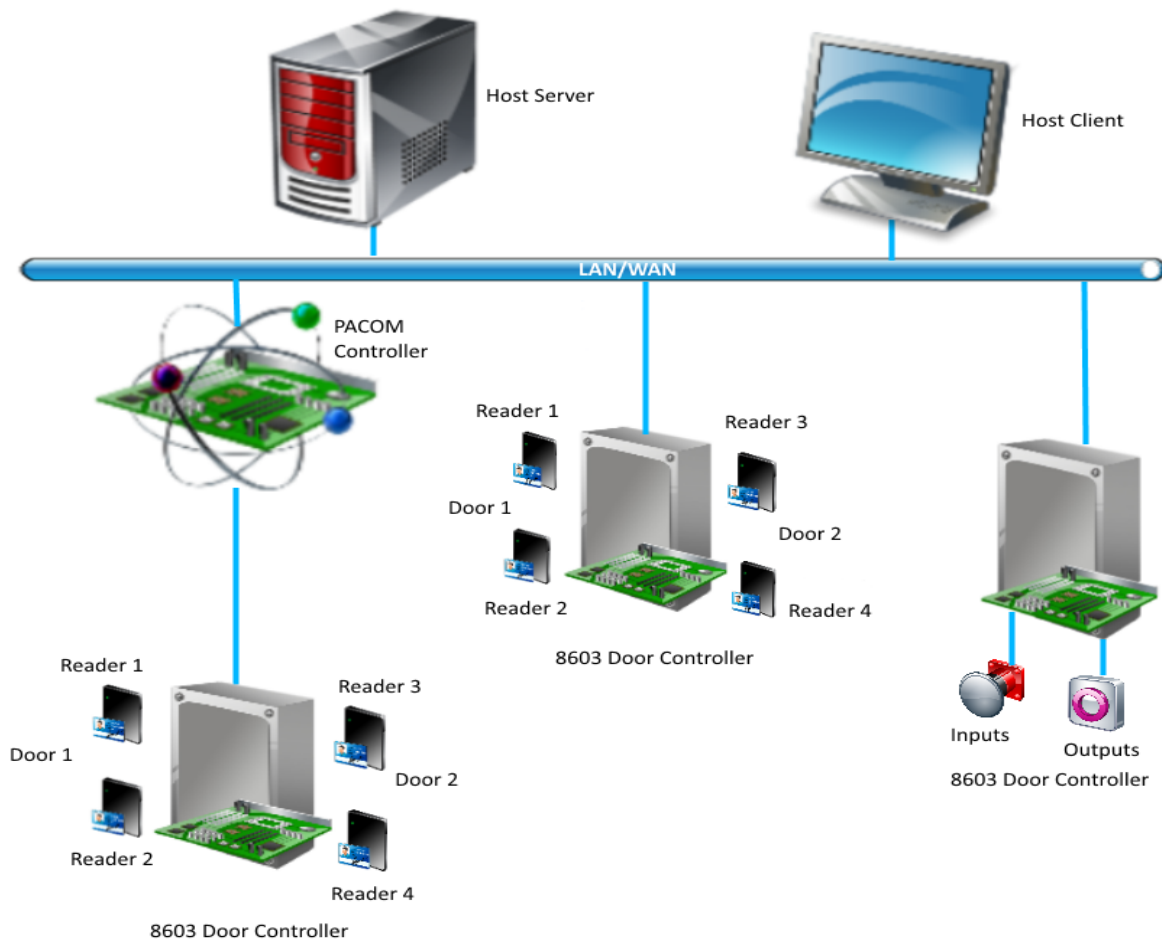
The 8603 is an intelligent IP-enabled hybrid door and an input output controller that provides flexible access control for up to two doors.

PACOM 8603 DOOR CONTROLLER

The PACOM 8603 intelligent IP door controller and I/O module is built using PACOM-Edge technology. PACOM-Edge represents a family of devices enabling advanced security capabilities across an organization's Ethernet backbone. The IP capability reduces the need for traditional security cabling, which ensures convenient deployment and extensive scalability. Configuration of the 8603 is easily achieved using the embedded web server or PACOM host software.

The IP door controller is designed for advanced access control applications, besides supporting the normal lock, unlock and offline access modes. Configure up to two doors, each with an IN reader and OUT reader to suit environments that requires an anti-passback system. The 8603 supports 1000 cards by default, which can be easily scaled up to support 500,000 cards by adding an SD Card. It supports card readers that use the Wiegand or MiFARE technology and when used with the expansion modules it supports cards using the Open Supervised Device Protocol (OSDP).

The 8603 provides eight configurable five-state inputs and eight outputs comprising of two relays and six open collectors. Using the compatible on-board expansion modules, the 8603 can be expanded to support up to 40 inputs and 24 outputs. The on-board color LEDs indicate Ethernet, power, transmission, reception and two relay outputs. It has a dedicated tamper input which can be used with an external switch.



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 | General Purpose | Red LED (door 1) |
| 5 | Egress/RTE (door 2) | Buzzer (door 1) |
| 6 | Door Contact (door 1) | Green LED (door 2) |
| 7 | General Purpose | Red LED (door 2) |
| 8 | Egress/RTE (door 1) | 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)

Onboard I/O:

- 4 readers, 2 doors - (Wiegand D0/D1, door contact, egress, door lock, green/red LED control, buzzer)
- Note:** OSDP Supported via installation of an Expansion Module
- Inputs - 8 end-of-line monitored (default 10kOhm, programmable from 1kOhm to 250kOhm)
 - Outputs: 2 x relay (NO/NC), 2A@30VDC; 6 x open collector, 150mA@15VDC

Programming:

- Configuration via embedded web server or PACOM host software

Communication

- RJ45 Ethernet Port 10/100 BaseT
- 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:

- 8203 4-Output
- 8204 8-Input
- 8205 RS232/RS485 (for OSDP)
- 8207 Star Coupler (for OSDP)
- 8220 Dual Expansion

Power Status Monitoring:

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

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.

Weight:

- 150g (5.3oz)

Processor:

- ARM9 32bit@400MHz

Memory:

- 256MB non-volatile flash memory (storage)

Power Input

- 9 to 36VDC

Power Consumption:

- Typically 250mA@12VDC

Power Protection:

- Resettable fuse 3.0A

Status Indicators:

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

Environment:

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

COMPLIANCE AND ACCREDITATION

RoHS, Radiation: EN55032 Class B I.FCC Part 15. Immunity:EN50130-4: 2011/A1:2014
EN61000-3-2 | EN61000-3-3 + A1/A2 | UL294 Pending

ORDERING INFORMATION

| PART NUMBER | TYPE CODE | DESCRIPTION |
|-------------|----------------|--|
| 300 047 021 | 8603R-001 | 8603 IP based 2 Door 4 Reader controller with in-built support for 8 inputs and 8 outputs (supports Wiegand D0/D1). Two expansion slots for increasing I/O and/or communications options supporting 8203, 8204, 8205 and 8207 modules. |
| 300 047 022 | 8603R-OSDP | 8603 IP based 2 Door 4 Reader controller with in-built support for 8 inputs and 8 outputs (supports Wiegand D0/D1). Two expansion slots for increasing I/O and/or communications options supporting 8203, 8204, 8205 and 8207 modules. + 8205 RS232/RS485 Comms (giving support for OSDP) |
| 300 047 023 | 8603R-001-ENC | 8603 IP based 2 Door 4 Reader controller with in-built support for 8 inputs and 8 outputs (supports Wiegand D0/D1). Two expansion slots for increasing I/O and/or communications options supporting 8203, 8204, 8205 and 8207 modules. + PACOM Standard Enclosure |
| 300 047 024 | 8603R-OSDP-ENC | 8603 IP based 2 Door 4 Reader controller with in-built support for 8 inputs and 8 outputs (supports Wiegand D0/D1). Two expansion slots for increasing I/O and/or communications options supporting 8203, 8204, 8205 and 8207 modules. + 8205 RS232/RS485 Comms (giving support for OSDP) + PACOM Standard Enclosure |