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

<table>
<thead>
<tr>
<th>Point Number</th>
<th>Input Function</th>
<th>Output Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General Purpose</td>
<td>Relay (door 1)</td>
</tr>
<tr>
<td>2</td>
<td>General Purpose</td>
<td>Relay (door 2)</td>
</tr>
<tr>
<td>3</td>
<td>Door Contact (door 2)</td>
<td>Green LED (door 1)</td>
</tr>
<tr>
<td>4</td>
<td>Egress/RTE (door 2)</td>
<td>Red LED (door 1)</td>
</tr>
<tr>
<td>5</td>
<td>General Purpose</td>
<td>Buzzer (door 1)</td>
</tr>
<tr>
<td>6</td>
<td>Door Contact (door 1)</td>
<td>Green LED (door 2)</td>
</tr>
<tr>
<td>7</td>
<td>Egress/RTE (door 1)</td>
<td>Red LED (door 2)</td>
</tr>
<tr>
<td>8</td>
<td>General Purpose</td>
<td>Buzzer (door 2)</td>
</tr>
</tbody>
</table>
## 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

**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:**
- Resetttable 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 pending, EN50130-4:2011

Specification may change without prior notice © PACOM Systems Pty Ltd
## ORDERING INFORMATION

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