PACOM

DATASHEET
8002 PACOM-EDGE CONTROLLER

Key Features

- Dual Ethernet ports
- Slots for expansion card connection
- Auto-discovery of peripheral devices
- Dual-flash memory allows firmware upgrades while system active
- IP/RS485/RS232 ports
- Offline card and event transaction memory
- Supports most card readers
- Multiple alarm area and keypad support
- Up to 256 inputs/64 outputs
- Peer-to-peer connections.
- Small, medium and large variants for complete flexibility

Pacom Controller hardware - technology and performance driven security device management.

The Pacom 8002 next generation controller is built using Pacom-edge technology. Pacom-edge 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 which ensures convenient deployment and extensive scalability.

The 8002 delivers an optimal, all-in-one building platform that integrates all functionality required for a remote security system. The modular architecture makes the 8002 simple to install and configure, as well as expand and integrate as your future security needs require. With dual on-board Ethernet capabilities, the 8002 is a fully integrated network-enabled security controller, providing the perfect platform to install and expand using your existing network infrastructure.

The 8002 can operate stand-alone for smaller buildings or as part of a fully integrated alarm and access control system for larger buildings or multi-site applications.

The 8002 Controller supports auto-discovery of peripheral devices for simplified installation. All doors can be individually configured to operate based on card only, PIN only, or card and PIN, with access schedules providing further control. Doors and alarm points can be partitioned into multiple areas of security, and can be controlled by multiple keypads. With dual-flash memory, firmware upgrades can be performed without any disruption to the system.

Along with the ability to scale alarm inputs and outputs using expansion modules, the Pacom 8002 is the ideal option for integrated security systems.

Pacom edge technology

Architecture

Product Overview

Technical Specifications	
Dimensions	273 x 160 x 18mm (10.8 x 6.3 x 0.7”) - PCB only 273 x 160 x 28mm (10.8 x 6.3 x 1.1”) - PCB with expansion cards 400 x 400 x 120mm (15.7 x 15.7 x 4.7”) - with enclosure
Weight	515g (18.2oz) 7.5kg (16.5lb) with enclosure
Status Indicator	11 x LED (power, 7-segment multi-status, RS232 Rx, RS232 Tx, RS485 Rx, RS485 Tx, 5VDC power, 3VDC power, AC power, Ethernet)
Operating Environment	-10 to +50°C (14 to 122°F) 85% maximum humidity (non-condensing) @ 30°C (86°F)
Power Input	12 to 15VDC @3A (fuse @ 5A)
Power Consumption	210mA @ 12VDC typical, excluding expansion cards. 230mA maximum with all alarm conditions present and all outputs active etc
Aux. Power Output	750mA @ 12VDC for peripheral devices (dedicated to devices other than expansion cards)
Memory	On-board 8MB (battery backed up). Expandable up to 72MB
Offline Transactions	1000 events (up to 128000 on 8002R-L with memory expansion card)
Network Connectivity	Dual Ethernet 10/100 BaseT TCP/IP, UDP/IP
Communication Paths	RS485 (each device line can support up to 32 Pacom RS485 peripheral devices. Maximum 5 lines with expansion cards) RS232 (configuration/diagnostics can be used for other serial interfaces) Dual Ethernet
Alarm Inputs	N/A (expandable up to 256 depending on model)
Control Outputs	N/A (expandable up to 64 depending on model)
Expansion Card Connection	6 x 20-pin (suitable for all 8000 series expansion cards, however, some expansion cards must be used in specific slots)

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8002 Controller Models	
8002 "Small Capacity" ("S")	Supports up to 8 card readers, 500 access cardholders, 32 inputs, 8 outputs, 32 alarm areas
8002 "Medium Capacity" ("M")	Supports up to 32 card readers, 2000 access cardholders, 128 inputs, 32 outputs, 32 alarm areas
8002 "Large Capacity" ("L")	Supports up to 64 card readers, 5000 access cardholders, 256 inputs, 64 outputs, 32 alarm areas. Memory expansion increases cardholder capacity to 256000 and offline event storage to 128000

Expansion Cards	
☑ 8201 GPRS Modem	☑ 8205 RS232/RS485 Communications
☑ 8202 PSTN (Dialup) Modem	☑ 8207 RS485 Star Coupler
☑ 8203 4-Output	☑ 8208 S-ART Interface
☑ 8204 8-Input	☑ 840x Memory Expansion

Compliance/Accreditation	
UL294, UL1610, UL1076/C1076, UL2017, ULC-S304, ULC-S319 [all ETL listed]	EN50130-4+A1, EN50131-1 EN 50136-1-1:1998+A1:2001+A2:2008 EN 50136-1-2:1998 EN 50136-1-5:2008 EN 50131-1:2006+A1:2009
C-Tick, CE Safety	ETSI TBR21
ANSI/SIA CP-01 [ETL listed]	RoHS, China RoHS, RoHS 7C3.
SSF 1014 Ver 3	

Order Information

Part Number	Type Code	Description
400 051 031	8002R-S-ENC	8002 small capacity Controller with PDENCL-01 enclosure and 8303 power supply
400 051 032	8002R-M-ENC	8002 medium capacity Controller with PDENCL-01 enclosure and 8303 power supply
400 051 033	8002R-L-ENC	8002 large capacity Controller with PDENCL-01 enclosure and 8303 power supply
400 051 041	8002R-S-ENC05	8002 small capacity Controller with PDENCL-01 enclosure and 8305 power supply
400 051 042	8002R-M-ENC05	8002 medium capacity Controller with PDENCL-01 enclosure and 8305 power supply
400 051 043	8002R-L-ENC05	8002 large capacity Controller with PDENCL-01 enclosure and 8303 power supply
400 051 051	8002R-S-ENC00	8002 small capacity Controller with PDENCL-01 enclosure
400 051 052	8002R-M-ENC00	8002 medium capacity Controller with PDENCL-01 enclosure
400 051 053	8002R-L-ENC00	8002 large capacity Controller with PDENCL-01 enclosure
400 053 021	8002R-S-ENC-UL	8002 small capacity Controller with 1010-01PD enclosure and 8303 power supply. US market
400 053 022	8002R-M-ENC-UL	8002 medium capacity Controller with 1010-01PD enclosure and 8303 power supply. US market
400 053 023	8002R-L-ENC-UL	8002 large capacity Controller with 1010-01PD enclosure and 8303 power supply. US market
400 053 032	8002R-S-UENC-05	8002 small capacity Controller with 1010-01PD enclosure and 8305 power supply. US market
400 053 032	800R2-M-UENC-05	8002 medium capacity Controller with 1010-01PD enclosure and 8305 power supply. US market
400 053 033	8002R-L-UENC-05	8002 large capacity Controller with 1010-01PD enclosure and 8305 power supply. US market

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