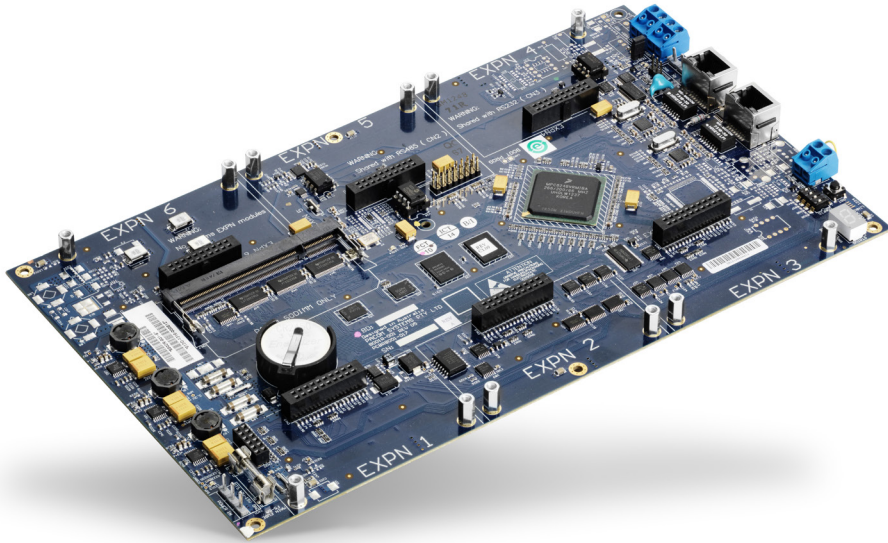# DATASHEET

PACOM-EDGE – 8002 CONTROLLER

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

OVERVIEW

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.

TECHNICAL SPECIFICATIONS

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

ALARM

- N/A (expandable up to 256 depending on model)

CONTROL

- N/A (expandable up to 64 depending on model)

COMMUNICATION

- 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

8002 CONTROLLER MODELS

- 8002 small capacity (S) Supports up to 8 card readers, 500 access cardholders (GMS/Unison), 32 inputs, 8 outputs, 32 alarm areas

- 8002 medium capacity (M) Supports up to 32 card readers, 2000 access cardholders (GMS/Unison), 128 inputs, 32 outputs, 32 alarm areas

- 8002 large capacity (L) Supports up to 64 card readers, 5000 access cardholders (GMS), 4000 access cardholders (Unison), 256 inputs, 64 outputs, 32 alarm areas. 64MB memory expansion card increases offline event storage to 128,000 and cardholder capacity to 256,000 (GMS) and 200,000 (Unison)

- 8002 Unison SODIMM socket for memory expansion. Supports 64 card readers, 5000 users/cards, 256 alarm inputs, 64 outputs and 32 areas.

SUPPORTED EXPANSION MODULES

- 8201 GPRS Modem

- 8203 4-Output Expansion Module

- 8204 8-Input Expansion Module

- 8205 RS232/RS485 Expansion Module

- 8207 Star Coupler Expansion Module

- 8208 S-ART Interface

- 8209 PSTN Modem Expansion Module

EXPANSION CARD CONNECTION

6 x 20-pin (suitable for all 8000 series expansion cards, however, some expansion cards must be used in specific slots)

SUPPORTED PERIPHERAL DEVICES

- 8101 Series Keypads

- 8501 Input/Output Module

- 8303 Monitoring Power Supply

- 8602 Multi interface

- 1068 2-Input/1-Output Module

- 1076 8-input/4-output Module

- 1064 Single Door Controller

- 1076 Two Door Controller

APPROVALS

ANSI/SIA CP-01 [ETL listed] | EN 50130-4:1995+A1:1998+A2:2003 | EN 50130-5:1998 | EN 50131-1:2001+A1:2009 | EN 50131-3:2009 | EN 50131-6:2008 | EN 50136-1-1:1998+A1:2001+A2:2008 | EN 50136-1-2:1998 | EN 50136-1-5:2008 | EN 50136-2-1:1998+A1:2001 | EN 50136-2-2:1998 | EN 55022:2010 Class A/B | EN 60950-1:2001+A1:2010+A11:2009+A12:2011 | EN 61000-3-2:2006+A1:2009+A2:2009 | EN 61000-3-3:1995+A1:2001+A2:2005 | FCC 47 CFR Part 68 | FCC 47 Part 15/B Class A/B | SSF 1014 Ver 3 | UL 294 | UL 1076/ULC/ORD-C1076 | UL 1610 | UL 2017 | ULC-S304 | ULC-S319 [all UL are ETL listed]

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.

MEMORY
On-board 8MB (battery backed up). Expandable up to 72MB

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

POWER OUTPUT
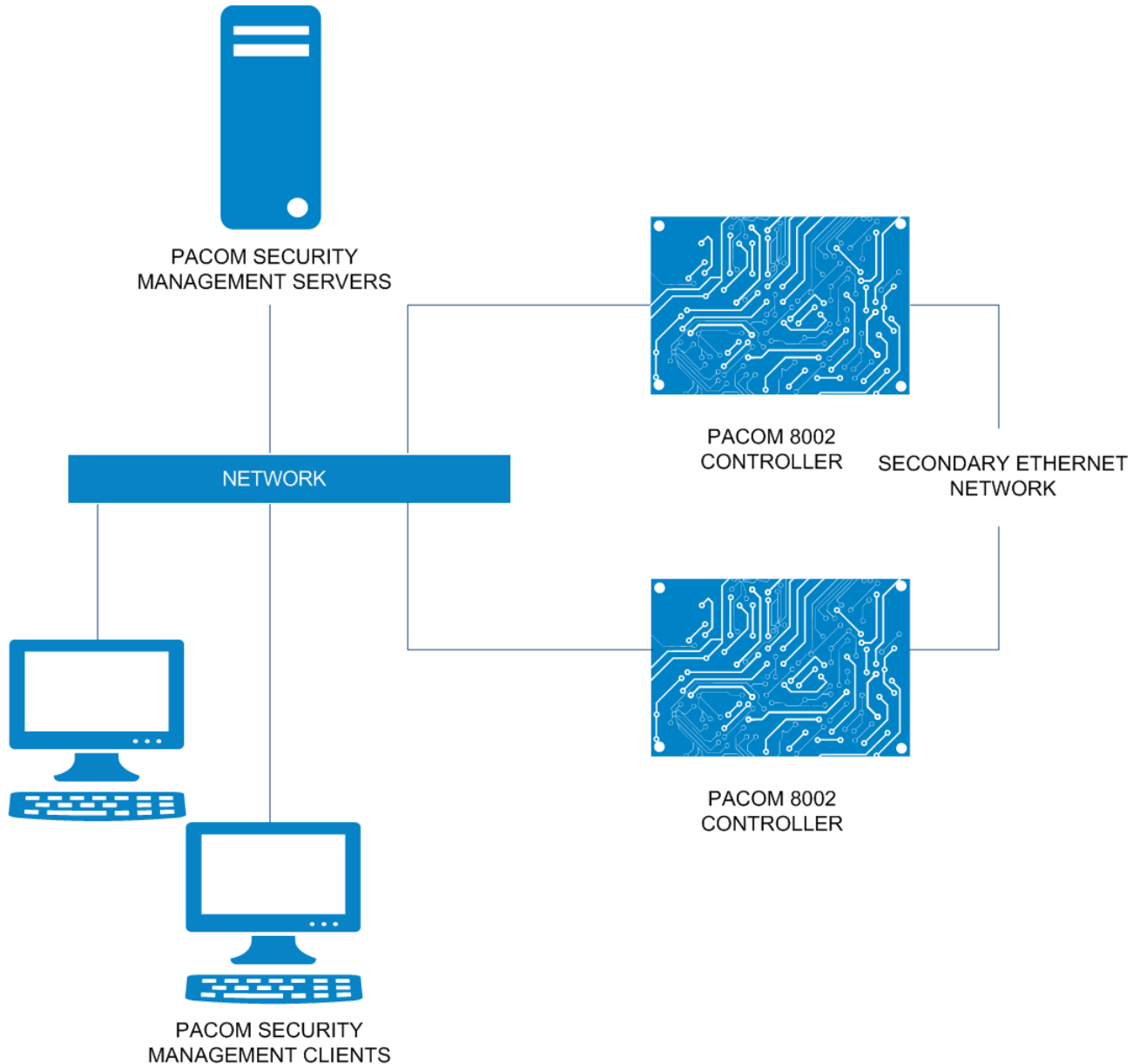750mA @ 12VDC for peripheral devices (dedicated to devices other than expansion cards)

STATUS INDICATORS
11 x LED (power, 7-segment multi-status, RS232 Rx, RS232 Tx, RS485 Rx, RS485 Tx, 5VDC power, 3VDC power, AC power, Ethernet)

ENVIRONMENT
-10 to +55°C (14 to 131°F)
85% maximum humidity (non-condensing) @ 30°C (86°F)

ARCHITECTURE

PACOM SECURITY MANAGEMENT SERVERS

NETWORK

PACOM 8002 CONTROLLER

SECONDARY ETHERNET NETWORK

PACOM 8002 CONTROLLER

PACOM SECURITY MANAGEMENT CLIENTS

ORDER INFORMATION

PART NUMBER	TYPE CODE	DESCRIPTION
400 051 031	8002R-S-ENC	8002-S Small Capacity Controller with 8303 intelligent power supply 12VDC@4A and PDENCL-01 PACOM Standard Enclosure. Available in Medium and Large capacity. For order information please refer to the price list.
400 051 041	8002R-S-ENC05	8002-S Small Capacity Controller including 8305 standard power supply and PACOM Standard Enclosure.Available in Medium and Large capacity. For order information please refer to the price list.
400 051 051	8002-S-ENC00	8002-S Small Capacity Controller including Pacom Standard Enclosure. Available in Medium and Large capacity. For order information please refer to the price list.
400 051 055	8002R-USN-ENC	8002 Controller for Unison-only Applications with 8303 intelligent power supply 12VDC@4A and PDENCL-01 PACOM Standard Enclosure
400 051 056	8002R-USN-ENC00	8002 Controller for Unison-only Applications with PDENCL-01 PACOM Standard Enclosure
300 040 013	8002R-001-S	PACOM 8002-S Field Controller PCB.
300 040 014	8002R-001-M	PACOM 8002-M Field Controller PCB.
300 040 015	8002R-001-L	PACOM 8002-L Field Controller PCB.

Note: Part numbers may differ depending on region. For full product range and all part numbers please refer to your local PACOM pricelist.