FEATURES

- On-board Ethernet

- Standard 3U rack mount size

- Support for up to 48 inputs and 21 outputs

- 16 on-board supervised alarm inputs

- 5 on-board output connections
  (2 x relay, 3 x open collector)

- Ability to increase capacity through expansion cards

- Dedicated tamper input

- RS-485 communications with controller

- Built-in web server to display status information

- Supports anti-masking and range reduction on alarm inputs

The PACOM 8501 Input Output (I/O) Module 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.
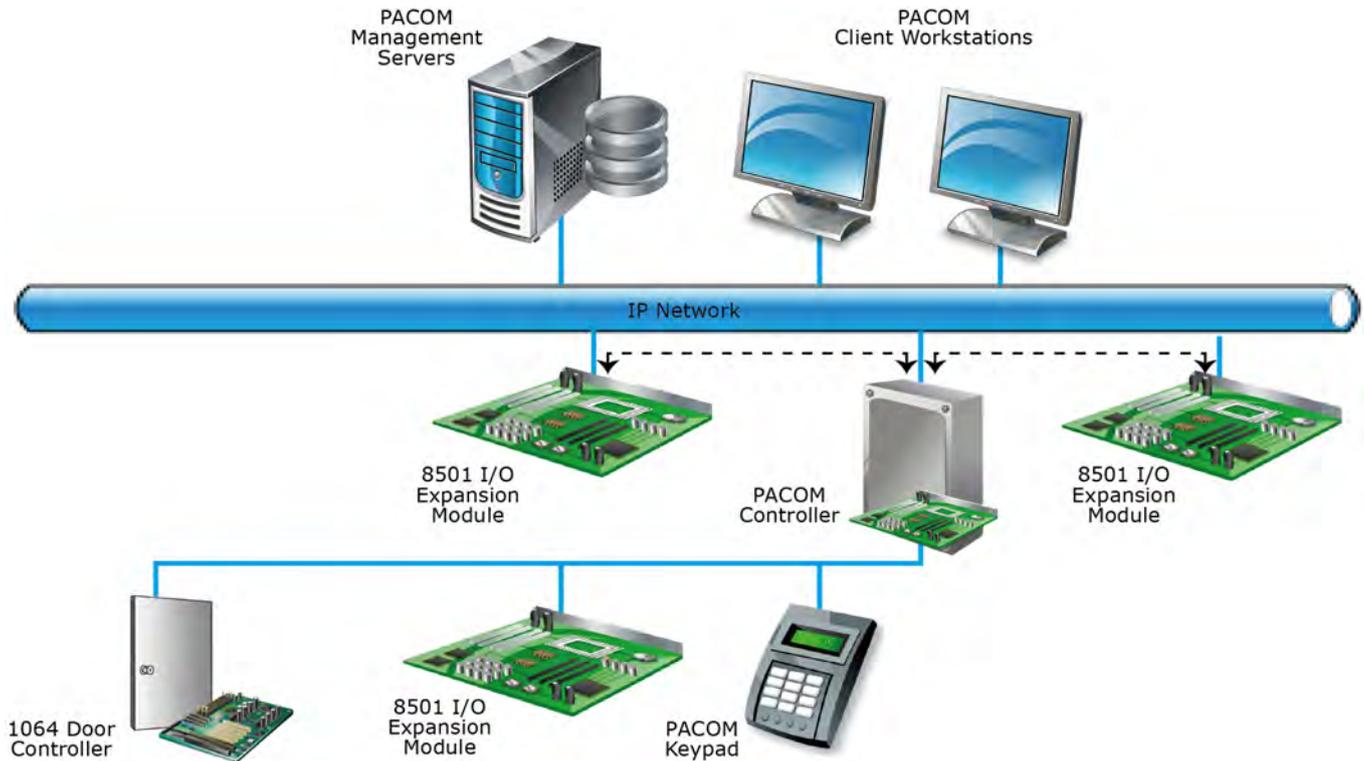
The 8501 I/O provides a native connection for up to 16 supervised alarm inputs, 2 relay driven outputs and 3 general purpose open collector type outputs. In addition, to these onboard connections, the capacity of the 8501 can be easily expanded by accommodating up to 4 PACOM 8000 series expansion cards, enabling customization to meet a wider range of applications. The expansion cards can be easily mix-n-matched to increase the input/output capacity of one 8501 module in the following combinations:

- 48-inputs & 5-outputs
- 40-inputs & 9-outputs
- 32-inputs & 13-outputs
- 24-inputs & 17-outputs
- 16-inputs & 21-outputs

The 8501 has also been specifically engineered so that it can be conveniently installed in any location rated for a 3U rack mount device.

The PACOM 8501 Input/Output Module is an IP device that enables intrusion detection using an organization's existing Ethernet network.

ARCHITECTURE

TECHNICAL SPECIFICATIONS

ELECTRICAL

Input Voltage	8501R-001-UL: 9 to 16VDC (can be supplied through an attached controller or external power supply) 8501R-001: 9 to 40VDC
Current Consumption	200mA @ 12VDC typical, excluding attached devices. 100mA maximum with all alarm conditions present and all outputs active etc.

ENVIRONMENTAL

Operating Temperature	EU: -10 to +55°C (14 to 131°F) UL: -10 to +55°C (14 to 131°F)
Maximum Humidity	93% (non-condensing) @ 40°C (104°F)

PHYSICAL

Dimensions	160 x 100 x 40mm (6.3 x 3.9 x 1.6")
Packed Weight	175g (6.2oz)

COMMUNICATIONS

Connection	RS485 (2 wire) Ethernet (IP) USB (micro-USB-type connector)

SIGNALING

Input	16 x supervised (10kΩ EOL resistance standard. Can be programmed for any value between 1kΩ and 100kΩ).
Output	2 x relay controlled (1.0A @ 30VDC contacts when powered from external power supply) 3 x open emitter, transistor controlled (150mA @ 12VDC when powered by controller)

MISCELLANEOUS

Expansion Card Connection	2 x 20-pin (suitable for 8000 Series Expansion Cards)
Indicators	13 status indicator LEDs

SUPPORTED 8000 SERIES EXPANSION BOARDS

- 8203 4-Output Expansion Module
- 8204 8-Input Expansion Module

COMPLIANCE & ACCREDITATION

RoHS,	RoHS, RoHS 7C3, China RoHS
Safety	Safety approved to CE
EMC	CE, C-Tick, FCC comply with part 15
EN	EN 50131-3:2009 in conjunction with EN 50131-1:2006/A1:2009| EN 50131-6:2008/A1:2014 EN 50130-4:2011/A1:2014 |EN 50130-5:2011| EN 50131-10:2014 |EN 50136-2:2013 in conjunction with EN 50136-1:2012
UL/ULC/ ANSI	ETL listed to the following standards:

- UL Standard for Safety for Proprietary Burglar Alarm Units and Systems, UL 1076, Fifth Edition, Dated September 29, 1995, Revised September 10, 2010;
- Proprietary Burglar Alarm Units and Systems, ULC/ ORD-C1076-M1986 First Edition, September 1986;
- UL Standard for Safety for Central- Station Burglar- Alarm Units, UL 1610, Third Edition, Dated October 26, 1998, Revised September 10, 2010;
- Signal Receiving Centre and Premise Burglar Alarm Control Units, ULC S304-06, Second Edition, July 2006
- Control Panel Standard – Features for False Alarm Reduction - ANSI/SIA CP-01-2010

ORDERING INFORMATION

PART NUMBER	TYPE CODE	DESCRIPTION
300 046 001	8501R-001	8501 16--In/5-Out Remote Ethernet-enabled I/O Expansion Module (PCB only) Supports 2 of the PACOM 8000 Series On-Board Expansion Modules.
300 046 101	8501R-001-UL	8501 16-In/5-Out Remote Ethernet-enabled I/O Expansion Module (PCB only) Supports 2 of the PACOM 8000 Series On-Board Expansion Modules.