

# AC-825IP

## Advanced Scalable Networked Access Platform



The AC-825IP is a state-of-the-art 4-door networked access controller and is the backbone of a medium-scale to high-scale security system. The controller comes with one onboard expansion slot and can be further expanded by connecting up to 16 expansion boards via OSDP\*. Using only D-805 door expansion boards, a single AC-825IP can handle up to 72 doors and 60,000 users. Driven by AxTraxNG™ – Rosslare’s powerful, flexible, and easy-to-use software – the system provides an ideal modular and expandable solution for commercial and institutional needs.

### GENERAL DESCRIPTION

The AC-825IP features a new spacious and lockable metal enclosure that includes a control board, power switcher, built-in power management board/charger, sounder, and a revolutionary enclosure illumination bar that lights up when the enclosure is opened. Each AC-825IP access control unit (ACU) supports up to 4 doors (In/Out) via Wiegand protocol and 2 doors via OSDP, each with 2 inputs and 1 output. Four additional auxiliary inputs and 2 auxiliary outputs are also on board.

The AC-825IP includes AES128-bit encrypted communication via TCP/IP to an AxTraxNG server, and has an additional RS-485 bus for expansion connectivity\*.

### MAIN FEATURES

- Up to 72 doors, 60,000 users, and 500,000 history log entries (FIFO) per ACU
- Onboard TCP/IP networking with AES 128-bit data encryption to an AxTraxNG server, bi-directional push communication for enhanced data transmission speed and reliability
- Supports up to 6 doors (Wiegand format/OSDP readers), each with 2 inputs and 1 output.
- 4 auxiliary inputs and 2 auxiliary outputs
- Supports 2 OSDP readers
- One onboard expansion slot and an additional 16 expansion boards via OSDP (R/S/D/P-805)\*
  - R-805 – 16 outputs
  - S-805 – 16 inputs
  - D-805 – 4-door expansion
  - P-805 – 16 inputs and 8 outputs
- Real-time clock keeps time for up to 2 weeks without power (no batteries to replace)
- Spacious and lockable metal enclosure, features cable twist locks and zip-tie anchors for better cable management
- Power management board indicates battery and power status
- Revolutionary enclosure with: illumination bar that lights up when enclosure is opened; tamper sensing; and power status LED

# SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	AC-825IP	R-805	S-805	D-805	P-805
Enclosure	ME-1525	ME-1505			
Enclosure SMPS	Input: 90 to 265 VAC, 50–60 Hz, Switch mode power management board Output: 12 VDC, 4 A				
PCBA Input Power	12 VDC, 2 A, regulated power management board				
Battery Charger	12 V sealed lead acid (SLA) up to 7 Ah				
OPERATIONAL SPECIFICATIONS					
Relays 5 A, Form-C	6	16	N/A	4	8
Inputs	12	N/A	16	8	16
Readers (Wiegand+OSDP)	6	N/A	N/A	4	N/A
Expansion Port	1	N/A			
Connectivity	TCP/IP, OSDP, G-Bus*		OSDP		
OPERATIONAL SPECIFICATIONS AC-825IP only					
Capacity	Up to 60,000 users				
History Event Log Size	Up to 500,000 entries				
Expansion	One onboard expansion slot and an additional 16 expansion boards* via OSDP (R/S/D/P-805)				
Time Zones and Groups	256 multi-segment time zones, 64 holidays – each holiday can be of multiple days Practically unlimited access groups				
Special Features with AxTraxNG	Interlock, first-person delay, auto-relock, scheduled outputs operation, 4 programmable site codes, extended unlocked time, fully interconnectedness, car parking management, antipassback (per reader, between readers)				
Security Modes	Normal and Secure				
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature Range	-5°C to 50°C (23°F to 122°F)				
Storage Temperature Range	-25°C to 50°C (-13°F to 122°F)				
Operating Humidity	0 to 85% (non-condensing)				
MECHANICAL SPECIFICATIONS	AC-825IP	R-805	S-805	D-805	P-805
Enclosure Dimensions (H x W x D)	345 x 400 x 10 mm (13.6 x 15.7 x 0.4 in.)				
Enclosure Weight	5 kg (11.0 lb)	4.6 kg (10.1 lb)			
PCBA Dimensions (H x W)	224 x 164 mm (8.8 x 6.46 in.)	175 x 85 mm (6.9 x 3.3 in.)			
PCBA Weight	400 g (14.1 oz)	150 g (5.3 oz)			
SYSTEM COMPONENTS	AC-825IP is compatible with a range of Rosslare accessories, including a diverse selection of readers and accessories; four expansion boards				
PRODUCT WARRANTY	2-Year Limited Product Warranty				

\* Will be available in future firmware updates

## ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration. [www.rosslaresecurity.com](http://www.rosslaresecurity.com)

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