

AC-825IP

Advanced Scalable Networked Access Platform



The AC-825IP is a 6-door (4 Wiegand format & 2 OSDP readers) networked access controller suitable for 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 12 expansion boards via OSDP. Using D-805 door expansion boards, a single AC-825IP can handle up to 58 doors and 100,000 users. Driven by AxTraxNG™ – Rosslare’s powerful and flexible software – the system provides a modular and expandable solution for commercial and institutional needs.

GENERAL DESCRIPTION

The 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 an encrypted communication via TCP/IP to an AxTraxNG server, and has an additional RS-485 bus for expansion connectivity. In addition, the AC-825IP and its expansions can be placed in a lockable metal enclosure, the ME-1515, which 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.

MAIN FEATURES

- Up to 58 doors, 100,000 users, and 500,000 history log entries (FIFO) per ACU
- Onboard TCP/IP networking with data encryption to an AxTraxNG server, bi-directional push communication for enhanced data transmission speed and reliability
- Supports up to 6 doors (4 Wiegand format & 2 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 12 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
- ME-1515 metal enclosure holds 2 expansion boards or an AC-825IP board with a C14 power plug and supports Pull-Safe™ cable locks, for secured wiring
- 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
- DIN rail mounting option for space saving with no additional enclosure needed
- 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-1515 (controller+ expansion) | ME-1515 (up to 2 R/S/D/P expansions) | | | |
| ■ 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 100,000 users |
| ■ History Event Log Size | Up to 500,000 entries |
| ■ Expansion | One onboard expansion slot and an additional 12 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 |
|------------------------------------|--|---------------------------------------|----------------|----------------|-------|
| ■ PCBA/Expansion Board Dimensions | 224 x 164 mm (8.8 x 6.46 in.) | 178 x 87x 30 mm (7.0 x 3.4 x 1.1 in.) | | | |
| ■ PCBA/Expansion Board Weight | 400 g (14.1 oz) | 230 g (8.1 oz) | 150 g (5.3 oz) | 200 g (7.1 oz) | |
| ■ Enclosure Dimensions (H x W x D) | 346 x 404 x 101 mm (13.6 x 15.9 x 3.9 in.) | | | | |
| ■ Enclosure Weight | 4.6 kg (10.1 lb) | | | | |

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

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

* Will be available in future firmware updates
All data contained herein subject to change without notice

