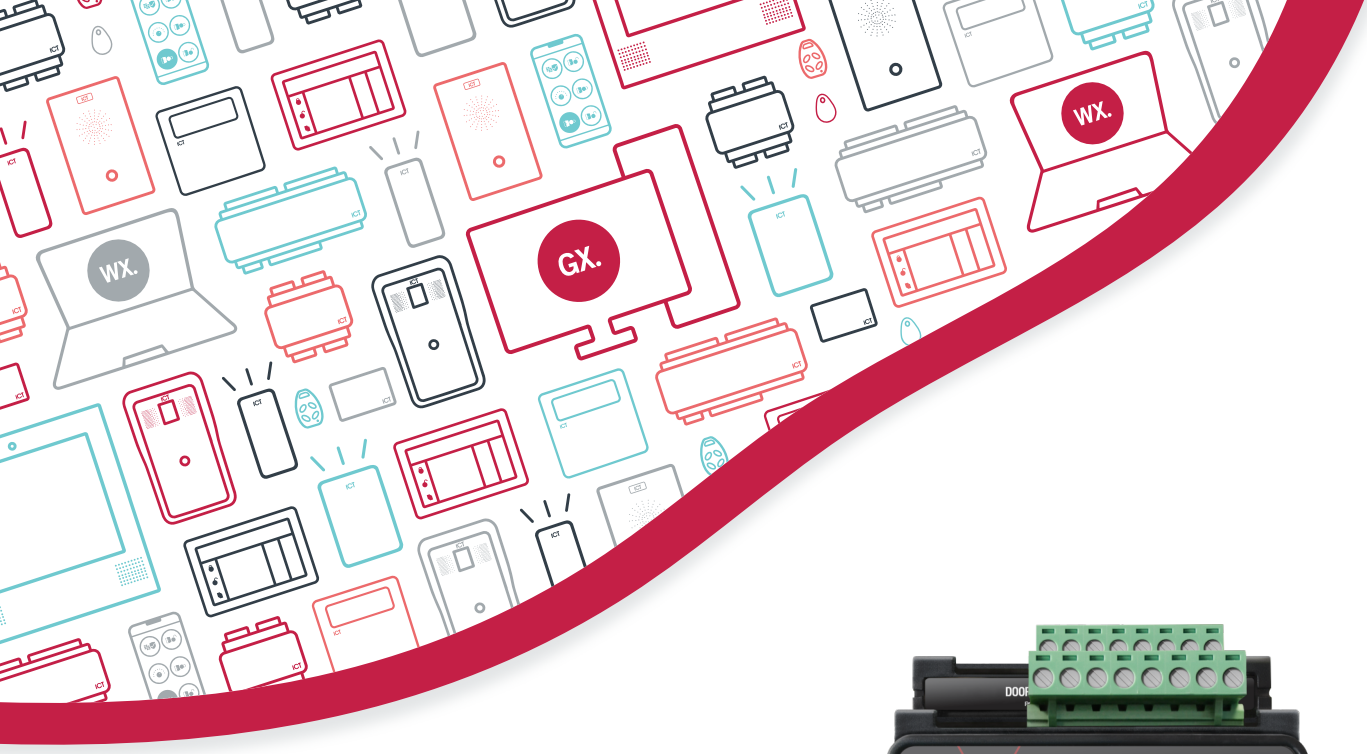


Protege Half DIN Rail 8 Port F/2F Reader Expander

The Protege Half DIN Rail 8 Port F/2F Reader Expander is an 8-port F/2F and supervised F/2F expander module designed to provide sites using legacy Casi-Rusco hardware and similar proprietary F/2F card readers with a seamless migration path to the Protege GX Security Management System.

Simply unplug the existing Casi-Rusco Secure Perfect/Picture Perfect or GE/Micro5 reader connection and fit to the F/2F reader expander.

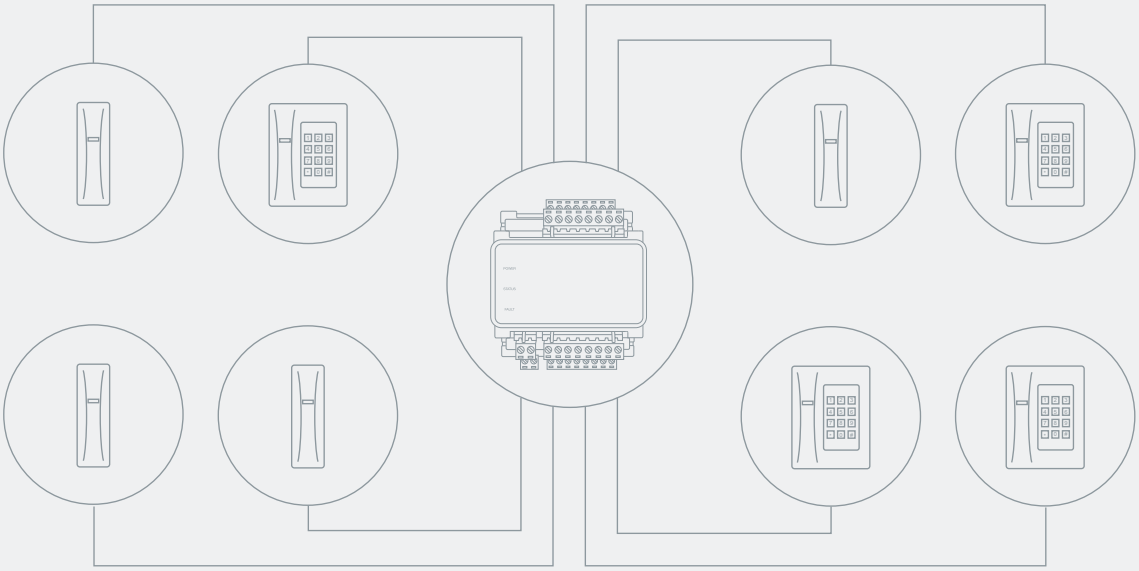
Feature Highlights

- 8 individual reader ports on each F/2F reader expander module
- Monitor door position contacts and Request to Exit devices over standard F/2F protocol
- 8 outputs (lock control outputs)
- No rewiring of existing readers required. Simply unplug the existing reader connection and fit to the F/2F reader expander
- Secure encrypted RS-485 module communications
- Online and remote upgradeable firmware
- Compact two-tier half DIN rail module design
- Industry-standard DIN rail mounting

Scalable Future Proof Design

Beyond offering a cost-efficient approach that leverages your existing investment, moving to Protege GX provides a scalable solution that expands with your business.

The modular design and scalable licensing model makes Protege GX suitable for everyone – from small single door systems right through to large multi-national corporations. Modular expansion allows the system to grow with you and proves to be very cost effective as you only add Expander modules and optional functionality as you need.



Cost Effective Upgrade Path

Many existing Casi-Rusco Secure Perfect, Picture Perfect and GE Micro-5 systems require replacement or upgrade as the platform reaches its end of life. Installations can be large (10,000+ doors) which makes replacing the entire system cost prohibitive. The Half DIN Rail 8 Port F/2F Reader Expander is a cost effective solution giving integrators the ability to take over these sites without the need to replace/rewire existing readers.

- Replacement product is mounted into existing security hardware enclosures
- There is no need to re-wire the system as it uses the existing wiring to card readers and other devices
- Allows continued use of existing cards, saving the time, cost and inconvenience of replacing cards

Wall Mountable

The additional wall mounting feature provides absolute convenience and flexibility in module positioning.

Communication

A single RS-485 communication interface port used for all network communication functions and interconnection to other modules.

Streamlined Installation

Installation simply involves removing the circuit boards and card cage from the existing Casi-Rusco enclosure. A DIN Rail mounting strip is then installed inside the enclosure, and the replacement Protege hardware modules connected. This provides a more robust solution than that offered by other providers which simply replace the circuit boards and continue to use the outdated and fragile card cage.

Power Supply

Device power is supplied from a 12VDC input. Ultra low current requirements ensure cost-effective power distribution.

Technical Specifications

Ordering Information	
PRT-F2F8-DIN	Protege Half DIN Rail 8 Port F/2F Reader Expander
Power Supply	
DC Input Voltage	11-14VDC
Max Pass Through Current	500mA per Reader Pair (Port 1/2, Port 3/4, Port 5/6, Port 7/8)
Total Combined Current*	2.4A
Max Combined Reader Current	1.25A
Operating Current	50mA (Typical) No outputs connected
Communication	
RS-485	Module network
Readers	
Max combined Reader Current	1.25A
Standard Mode	8 F/2F or Supervised F/2F card reader ports (V+, V-, Data, Door)
Auxiliary Outputs	
Current	8 x 140mA (Max) Sink
Dimensions	
Dimensions (L x W x H)	78 x 90 x 60mm (3.07 x 3.54 x 2.36")
Net Weight	177g (6.2oz)
Gross Weight	246g (8.7oz)
Operating Conditions	
Operating Temperature	-10° to 55°C (14° to 131°F)
Storage Temperature	-10˚ to 85˚C (14˚ to 185˚F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)
Mean Time Between Failures (MTBF)	622,997 hours (calculated using RFD 2000 (UTE C 80-810) Standard)

* The total combined current refers to the current that will be drawn from the external power supply to supply the expander and any devices connected to its outputs. The auxiliary outputs are directly connected via thermal resettable fuses to the N+ N- input terminals, and the maximum current is governed by the trip level of these fuses.

It is important that the unit is installed in a dry cool location that is not affected by humidity. Do not locate the unit in air conditioning or a boiler room that can exceed the temperature or humidity specifications.

Regulatory Notices

RCM (Australian Communications and Media Authority (ACMA))

This equipment carries the RCM label and complies with EMC and radio communications regulations of the Australian Communications and Media Authority (ACMA) governing the Australian and New Zealand (AS/NZS) communities.

CE – Compliance with European Union (EU)

Conforms where applicable to European Union (EU) Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility (EMC) Directive 2014/30/EU, Radio Equipment Directive (RED)2014/53/EU and RoHS Recast (RoHS2) Directive: 2011/65/EU + Amendment Directive (EU) 2015/863.

This equipment complies with the rules of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directives.

Security Grade 4, Environmental Class II, EN 50131-1:2006+A2:2017, EN 50131-3:2009, EN 50131-6:2008+A1:2014, EN 50131-10:2014, EN 50136-1:2012, EN 50136-2:2013, EN 60839-11-1:2013, Power frequency magnetic field immunity tests EN 61000-4-8, Readers Environmental Class: IVA, IK07.

UK Conformity Assessment (UKCA) Mark

This equipment carries the UKCA label and complies with all applicable standards.

Federal Communications Commission (FCC)

FCC Rules and Regulations CFR 47, Part 15, Class A.

This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

ICES-003

This is a Class A digital device that meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (A)/NMB-3(A)

> For a full regulatory and approval list please visit the ICT website.

Designers & manufacturers of integrated electronic access control, security and automation products.
Designed & manufactured by Integrated Control Technology Ltd.