



Protege DIN Rail 8 Input Expander



The Protege DIN Rail 8 Input Expander provides the interface of up to 8 inputs (16 using Input Duplex Mode) for monitoring and automation in the Protege system.

With 8 inputs that can be used for extended monitoring functionality, the DIN Rail 8 Input Expander provides extensive hardware advancements that allow flexible input programming and configuration, and is designed for use with industry standard DIN Rail mounting.

Feature Highlights

- > Connect any combination of normally closed or normally open inputs, configurable per input
- > 8 monitored inputs (16 with input duplex mode)
- > Utilizes analog to digital processing with 5x over sampling
- > 4 state input alarm using resistors to provide short, alarm, closed and tamper conditions
- > High performance 32 Bit processor
- > Secure encrypted RS-485 module communications
- > Online and remote upgradable firmware
- > Designed for use with industry standard DIN Rail mounting

Connectivity and System Expansion

Expanding the Protege system with local input and output from the Input Expander allows convenient cost effective expansion and the added benefits of:

- > 8 inputs (16 with input duplex mode) can be assigned to any 4 areas in the system each being processed using different options or features
- > Address configuration of the Input Expander is achieved using the address programming feature of the Protege System Controller

Communication

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

Power Supply

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

Upgradable Firmware

Utilizing the latest flash technology and high performance communication mediums, the firmware can be updated via the Protege interface.

Technical Specifications

Ordering Information	
PRT-ZX8-DIN	Protege DIN Rail 8 Input Expander
Power Supply	
DC Input Voltage	11-14VDC
DC Output Voltage (DC IN Pass-Through)	10.83-14.0VDC 0.7A (Typical) Electronic Shutdown at 1.1A
Operating Current	50mA (Typical)
Total Combined Current*	1.5A (Max)
Low Voltage Cutout	8.7VDC
Low Voltage Restore	10.5VDC
Communication	
RS-485	Isolated Module Network
Inputs	
Inputs	8 High Security Monitored Inputs (10ms to 1hr Input Speed Programmable) 16 using Input Duplex Mode
Trouble Inputs	16
Dimensions	
Dimensions (L x W x H)	78.4 x 90 x 44.1mm (3.08 x 3.54 x 1.73")
Weight	151g (5.3oz)
Operating Conditions	
Operating Temperature	UL/ULC 0° to 49°C (32° to 120°F) : EU EN -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)	784,316 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.

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.

UL/ULC (Underwriters Laboratories)

- > UL1610 for Central-Station Burglar-Alarm Units
- > CAN/ULC S304 for Signal Receiving Centre and Premise Burglar Alarm Control Units
- > CAN/ULC S559 for Fire Signal Receiving Centres and Systems

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.

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

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

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