

Protege DIN Rail 16 Zone Input Expander

The Protege DIN Rail 16 Zone Input expander provides the interface of up to 16 zone inputs to the Protege system, an advanced technology security product providing seamless and powerful integration of access, security and building automation. The Zone 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 zones, configurable per zone input
- > 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

Power Supply

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

Connectivity and System Expansion

Expanding the Protege System with local inputs from the Input Expander allows convenient cost effective expansion:

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

Communication

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

Upgradable Firmware

Utilizing the latest flash technology and high performance communication mediums, the firmware can be updated using the Loadit utility over the system module network.

Technical Specifications

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	80mA (Typical)
Total Combined Current*	3A (Max)
Low Voltage Cutout	8.7VDC
Low Voltage Restore	10.5VDC
Communication	
RS-485	Module Network
Inputs	
Zone Inputs	16 High Security Monitored Inputs(10ms to 1hr Input Speed Programmable)
Trouble Inputs	16
Dimensions	
Dimensions (L x W x H)	156.8 x 90 x 60mm (6.17 x 3.54 x 2.36")
Weight	264g (9.31oz)
Temperature	
Operating	0°-50°C (32° - 122°F)
Storage	-10° - 85°C (14° - 185°F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)

* The Total Combined Current refers to the current that will be drawn from the external power supply to supply the Input Expander and any devices connected to the Expander's outputs. The Auxiliary outputs are directly connected via electronic fuses to the N+ N- input terminals, and the maximum current is governed by the trip level of these fuses.