Security Expert Security Purpose Mini Input Expansion

The Security Expert Security Purpose Mini Input Expansion provides an additional 16 inputs to the Security Expert system, an advanced technology security product providing seamless and powerful integration of access, security and building automation. The Input Expansion provides extensive hardware advancements that allow flexible input programming and configuration, and is designed for use with industry-standard DIN rail mounting.

Feature Highlights

- Expands the Security Expert system by 16 inputs
- Connects any combination of normally closed or normally open inputs, configurable per input
- Compact two-tier half DIN rail module design
- 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.

Smaller Footprint

The compact module design takes up less valuable real estate to provide more control in less space

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.

Connectivity and System Expansion

Expanding the Security Expert System with local inputs from the Input Expansion allows convenient cost effective expansion up to:

- 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 Expansion interface is achieved using the address programming feature of the Security Expert System Controller

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)	78 x 90 x 60mm (3.07 x 3.54 x 2.36")
Weight	238g (8.4oz)
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.

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.

Ordering Information

SP-MI16	Security Expert Security Purpose Mini Input Expansion

Regulatory Notices

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)

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 to European Union (EU) Low Voltage Directive (LVD) 2014/35/EU, Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and RoHS Recast (RoHS2) Directive: 2011/65/EU.

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 directive(s).