Security Expert Security Purpose COMMS Expander

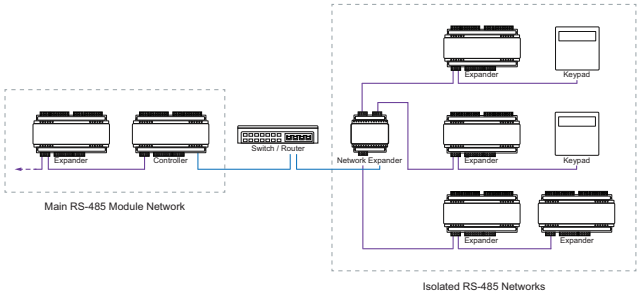
The Security Expert Security Purpose COMMS Expander is designed to extend the network capabilities of the Security Expert system, an advanced technology security product providing seamless and powerful integration of access, security and building automation. The module network repeater is added to the system via RS-485 or Ethernet and provides optical isolation between up to three branches of the module network, easing power requirements.

Feature Highlights

- 3 isolated RS-485 connections
- Internal industry standard 10/100 Ethernet
- Encrypted module network using RS-485 communication
- RS-485 or Ethernet network expansion
- Designed for use with industry standard DIN Rail mounting

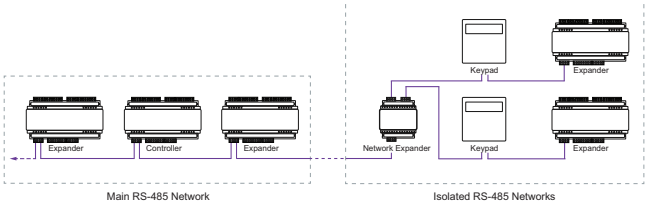
Ethernet Expansion

The Ethernet solution enables the module network repeater to communicate via UDP through a switch or router. You can connect the network repeater via Ethernet to link module networks running between two buildings (within a close proximity), remove the need to run expensive cabling over long networks, and to enable the network to reach physical locations where traditional wiring is difficult.



RS-485 Expansion

You can place the network repeater virtually anywhere on the RS-485 module network to extend the maximum length, strengthen communications, or resolve network issues using existing infrastructure.



Isolated RS-485 Network Spurs

The RS-485 ports can be used to extend the network into up to three optically isolated branches. This enables the creation of isolated RS-485 networks for keypads or or devices located outside or in publicly accessible areas or for replacing existing systems using spur wiring.

Configurable RS-485 Biasing

RS-485 biasing on the COM ports enable you to set master or slave configuration for each port. This allows for more reliable communication between the network repeater and the connected modules.

Web Interface

The web interface enables you to configure and manage the COMMS Expander's settings. The web interface also allows you to monitor the status of the network repeater and view the version information.

Technical Specifications

Power Supply	
Operating Voltage	12V DC
Operating Current	65mA (typical)
Communication	
RS-485	3 isolated RS-485 communication interface ports
Ethernet	1 10/100Mbps Ethernet Communication Link
Ports	Port 80 TCP/IP HTTP (Controller Web Interface) Fixed Port 9450 UDP/IP (Module to Controller)
Dimensions	
Dimensions (L x W x H)	78 x 90 x 60mm (3.07 x 3.54 x 2.36"")
Weight	240g
Temperature	
Operating	EU EN -10˚ to 55˚C (14˚ to 131˚F)
Storage	-10˚- 85˚C (14˚ - 185˚F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)

Ordering Information

SP-MNR2	Security Expert Security Purpose COMMS Expander

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).