Axis EN

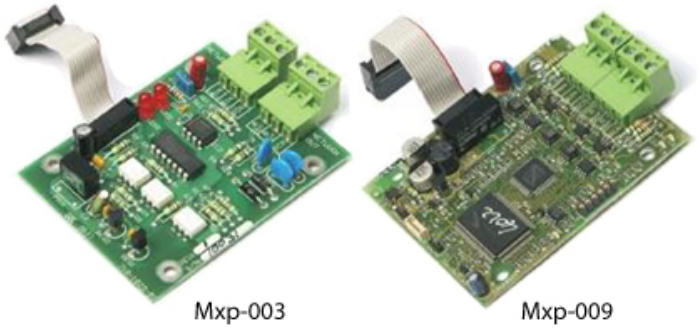
Network Cards

Advanced networking allows all Axis EN series control panels, remote terminals and network peripherals to be connected together using standard fire resistant two-core cable. It provides both the benefits of distributed intelligence and reduced installation costs whilst catering for the smallest two-panel network through to the largest 200-panel wide area networked system.

The network operates as a true peer-to-peer system allowing information from any input or output device to be passed over the network and displayed on any Axis EN control panel or remote terminal as required.

Simply adding and connecting a network card allows any Axis EN control panel or remote terminal to be networked. All other nodes on the system will be instantly aware of a panel as soon as it is given a valid network node address, allowing additional panels to be added at any time. All panels incorporate a network analyser providing valuable diagnostic and status information and also have the facility to prevent the transmission of fires or faults during commissioning.

For more complex systems, the Windows based PC-NeT Mx configuration software allows sector based programming for Mute, Silence, Resound and Reset control keys as well as investigation delays, group disablement and test instructions. All panels within the same sector will share common controls and each panel or remote terminal can also be programmed to show specific network information on a zonal basis. For cause and effect, any input device can be programmed to operate any output device on any panel.



Mxp-003 Mxp-009

Features

- Large Ad-NeT+ 200 Panel Network
- Up to 1.5Km between Control Panels
- Windows based PC setup
- Network Systems share up to 1000 zones
- Network Analysis from Contol Panel

Specification

Network Connections	IN: A/B SCN(Screen) OUT: A/B SCN (Screen)
On-board Indication	2 Red LED's. LED 1 illuminates when data is transmitted LED 2 illuminates when data is received
Supply Current	Mxp-503 Standard Network card: 20mA Mxp-509 Fault tolerant Network Card: 61mA (All power taken directly form the panel motherboard)
Temperature range and Humidity	-5°C to 40C 95% non-condensing (maximum)
Dimensions (H x W x D)	85mm x 65mm x 20mm (Mounting pillars are provided on the panel chassis to mount this card)
Recommended Cable	2 Core twisted-pair plus screen

Order Codes and Options

MXP-503:	Standard Network Card
MXP-509:	Fault Tolerant Network Card
MXP-503F:	Standard Network Card fitted to an Axis EN control panel
MXP-509F:	Fault Tolerant Network Card fitted to an Axis EN control panel

Limitations

Standard Network

The maximum total cable length is 1.5km. The maximum number of network nodes is 32 (50 with signal buffer)

Fault Tolerant Network

The maximum cable length is 1.5km between each node and the maximum total loop length is 20km. Each network card has in-built diagnostics and is fully monitored for both short and open circuit faults between nodes. The network is capable of withstanding a single fault between nodes without loss of communications to any single panel. The maximum number of network nodes is 200.

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Axis EN

Standard Network Booster

The Mxp-030 network booster provides optical isolation between Axis EN series control panels and the remainder of the network. Used in this manner, the Mxp-030 extends the distance of an existing network and allows expansion beyond the 32 node limitation when using standard network card.

The unit is supplied pre-configured for ease of installation, allowing for quick and trouble-free extension of the existing network.



Features

- Extends network up by to 1.2Km
- Allows more than 32 nodes with standard network card
- Wide operating voltage available
- Low current consumption

Specification

Input voltage	10 - 30Vdc
Isolation	2KV RMS for 1 minute via optical isolation
Current consumption	67mA @ 12Vdc
Signal and power connection	Via terminal block
operating temperature	-40 to +80 degrees C
Operating humidity	0 to 95% non-condensing
LED indication	2 x data flow
Dimensions	100 x 74 x 23 mm
Din rail mounting	35mm top hat

Limitations

Requires external 10-30Vdc power supply (Not included) but can be powered from an MxPro control panel

Order codes

MXP-030	Standard network booster

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Axis EN

24VDC Convertor / Isolator Module

The Mxp-542 is a self-contained unit complete with flying leads. It provides electrical isolation between the fire system and external equipment such that the earth fault monitoring of the fire system is not compromised.

The unit can be positioned in either an enclosure of the fire system or that of the external powered equipment. To allow for variations in external equipment the unit can be fixed to the enclosure by any suitable method (e.g. tie-wrap). Alternatively the unit may be left loose.

Wiring

Identify, from the label, the IN and the OUT wire pairs. Connect the IN wires to the source of the power e.g. the AUX supply terminals of a fire alarm control panel. Connect the OUT wires to the 24V power input of the connected equipment.

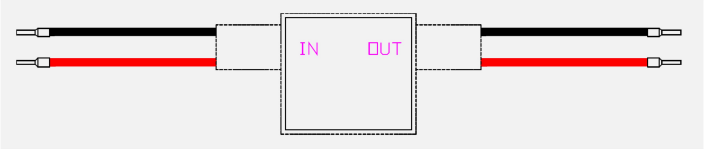
For both IN and OUT wires, the RED wire indicates the positive (+24V) connection and the BLACK wire indicates the negative (0V) connection.

It is important that the correct polarity is observed. If an extension to the wiring run is required, use 18AWG/1.0mm2 cables and connect using a suitable 2-way terminal block.

Applications / Limitations

Suitable for use when interfacing to external equipment which is referenced to earth and is required to communicate to the fire system.

Observe maximum current limitations (see specification section). Observe correct polarity on all connections to other equipment.



Features

- Low cost
- Simple to install
- Small form factor
- 3 year warranty

Specification

Input Voltage	18 - 30 V_{DC}
Input Current (max)	0.11 A
Output Voltage	24 VDC +/- 5%
Output Current	0.083 A
Operating Temperature	-5°C to +40°C
Wiring	Power Limited with Auto Recovery Short Circuit Protection

Compatibility

MxPro 4, MxPro 5, Axis EN, ExGo Series Panels

Order Codes and Options

MXP-542	24V DC Isolator Module

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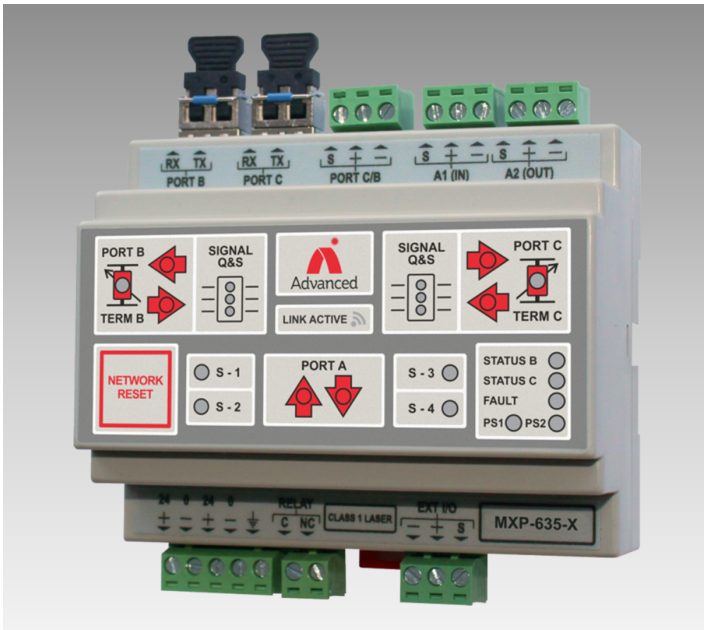
Advanced

Axis EN

Fibre Optic Converter - Active

The MXP-635-A (active), when used in conjunction with SFP modules, is a full fibre or hybrid copper/fibre modem, for both radial and ring topology networks for use with MxPro[5] and AxisEN fire panels. This equipment is designed for reliable data communication and easy visual system diagnostics, to improve the Quality of Service (QoS) of critical communication networks while operating under the performance criteria required by BS5839 part 1.

In addition, this has been developed to facilitate dynamic network management. The active fibre optic converter provides the functionality for fibre optic system monitoring, diagnostics & reporting, and is used in conjunction with the IVIEW Graphical User Interface.



Approvals

- CE, UKCA, RoHs, WEEE compliant
- EMC: EN 61000-6-2
- EMC: EN 61000-6-4
- Safety: EN 60950

Features

- Intelligent Fibre Optic Communication Interface, dynamic network management
- Independent Reporting with Class A communication redundancy with multiple fault tolerance
- 5 kV Galvanic Isolation on all Ports
- Support of single and dual port industrial equipment RS-485 connections
- Simple LED status indication for Fibre and RS-485
- Hot-swappable small form-factor pluggable (SFP) modules:
  - Multi-mode (Fibre cable lengths up to 2km)
  - Single-mode (Fibre cable lengths up to 20km)
  - Bi-Di (Fibre cable lengths up to 20km)
- Single modem routes both in and out ports so that only one is required per panel
- Ports B or C with RS-485 transceivers have adjustable termination to correctly match the loop cabling segment
- Single switch configuration for fibre optic/RS-485 mediums
- Baud rate selectable from 9600 - 115200 bits/sec
- DIN rail mountable
- Redundant power supply for increased reliability
- Graphical User Interface, IVIEW, provides fibre optic system monitoring, diagnostics and reporting options. Availability is dependent on system requirements
- Compatible with MxPro[5] and AxisEN systems

Specification

Operating voltage:	18 - 36V (24V DC nominal)
Rated current:	250mA (at 24V)
RS-485:	Port A1 - Selectable Fixed Termination, in accordance with EIA RS-485 Port A2 - Selectable Fixed Termination, B or C, in accordance with EIA RS-485
Fibre Optic /RS-485:	Port B - Fibre Optic, SFP Connector (Specification as per selected SFP transceiver) Port C - Fibre Optic, SFP Connector (Specification as per selected SFP transceiver) Port C - Dynamic Termination Port A1, A2 (& Port C - FC model) - Isolated (2.5kV) Baud Rate - 9600 to 115200 (selectable / configurable)
USB:	USB Micro-B connection (Device/Slave Mode)
Operating temperature:	-10 to 50°C
Storage temperature:	-40 to 70°C
Dimensions:	115 X 105 X 58 mm
Weight:	200g
Mounting:	DIN Rail EN60715 (width 35 mm)

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)
MXP-635/IVIEW	Fibre Optic iView Commissioning Tool (Limited)
MXP-635/COMM	Fibre Optic iView Commissioning Tool (Interactive)

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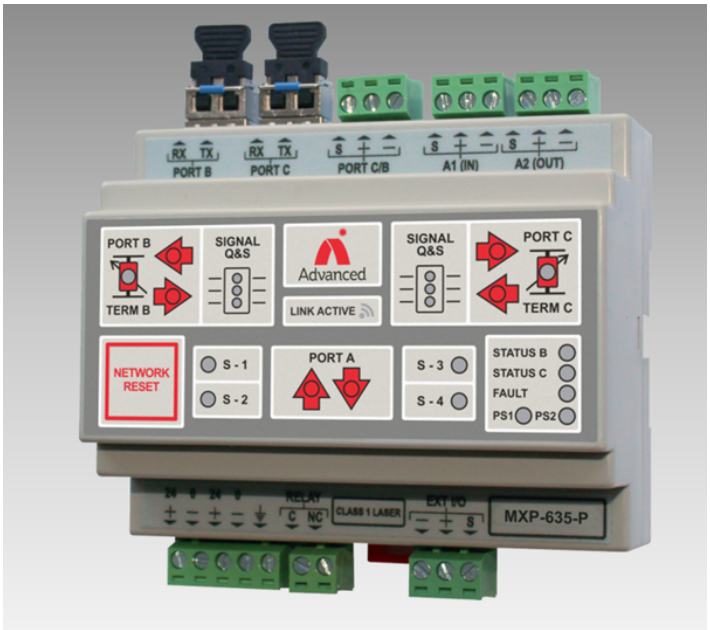
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Axis EN

Fibre Optic Converter – Passive

The MXP-635-P (passive), when used in conjunction with SFP modules, is a full fibre or hybrid copper/fibre modem, for both radial and ring topology networks for use with MxPro^5 and AxisEN fire panels. This equipment is designed for reliable data communication and easy visual system diagnostics, to improve the Quality of Service (QoS) of critical communication networks while operating under the performance criteria required by BS5839 part 1.



Approvals

- CE, UKCA, RoHs, WEEE compliant
- EMC: EN 61000-6-2
- EMC: EN 61000-6-4
- Safety: EN 60950

Features

- 2.5 kV Galvanic Isolation on all Ports
- Support of single and dual port industrial equipment RS-485 connections
- Simple LED status indication for Fibre and RS-485
- Hot-swappable small form-factor pluggable (SFP) modules:
  - Multi-mode (Fibre cable lengths up to 2km)
  - Single-mode (Fibre cable lengths up to 20km)
  - Bi-Di (Fibre cable lengths up to 20km)
- Single modem routes both in and out ports so that only one is required per panel
- Ports B or C with RS-485 transceivers have adjustable termination to correctly match the loop cabling segment
- Single switch configuration for fibre optic/RS-485 mediums
- Baud rate selectable from 9600 - 115200 bits/sec
- DIN rail mountable
- Redundant power supply for increased reliability
- Compatible with MxPro^5 and AxisEN systems

Specification

Operating voltage:	18 - 36V (24V DC nominal)
Rated current:	250mA (at 24V)
RS-485:	Port A1 - Selectable Fixed Termination, in accordance with EIA RS-485 Port A2 - Selectable Fixed Termination, B or C, in accordance with EIA RS-485
Fibre Optic /RS-485:	Port B - Fibre Optic, SFP Connector (Specification as per selected SFP transceiver) Port C - Fibre Optic, SFP Connector (Specification as per selected SFP transceiver) Port C - Selectable Fixed Termination, in accordance with EIA RS-485 Port A1, A2 (& Port C - FC model) - Isolated (2.5kV) Baud Rate - 9600 to 115200 (selectable / configurable)
USB:	USB Micro-B connection (Device/Slave Mode)
Operating temperature:	-10 to 50°C
Storage temperature:	-40 to 70°C
Dimensions:	115 X 105 X 58 mm
Weight:	200g
Mounting:	DIN Rail EN60715 (width 35 mm)

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)

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Network Diagnostic Analysis, Performance and Commissioning Report Generation

IVIEW is used to provide its users with the ability to rapidly recognise and diagnose physical errors on the network and is used in conjunction with the Advanced MXP-635-A fibre converter to provide a single consolidated solution.

IVIEW supports the option of real time monitoring of the network physical layer. This feature requires MXP-635-A fibre converters to be installed at each network node for signal redundancy. It can also be used for remote monitoring or reviewing recovered data files offline.

The tool and its diagnostics capability provide the user with the ability to record events, before, during and after each system maintenance exercise. These events can be presented in a report to provide an indication of the state and stability of the network by including detailed information captured either in a time period preceding the fault recovery or user-initiated reset.

The data files recovered from the MXP-635-A fibre converters are loaded into IVIEW and decoded, with the diagnostic detail presented to the user in one of three views:

- Top Level network View
- Node Analysis view
- Event Record view with Report generation

The IVIEW application also includes a graphical view, providing an easy interpretation through topographical network views.

IVIEW can connect to any of the MXP-635-A modules via USB (v2.0) or RS-485, and is allocated to a dedicated communication port on a monitoring station (the device hosting the IVIEW application).

Features

IVIEW, when used in conjunction with the MXP-635-A, offers the user enhanced diagnostic functionality as follows:

- Efficient cable fault detection and diagnosis
- System stability monitoring
- Identification of failing components
- Support in commissioning (Firmware Version management, Wiring polarity verification, Network configuration monitoring e.g. double address indication, Signal attenuation monitoring – repeater requirements, System stability confirmation)
- Support in maintenance monitoring (Log of all physical network alterations)
- CIE watchdog/power recycle monitoring
- Early indication of intermittent fault on network cards
- Preventative maintenance opportunity through monitoring the system stability over multiple maintenance exercises.
- The IVIEW Software Application can support multiple instances and hence multiple rings for monitoring

IVIEW Versions

- **MXP-635/COMM**

  The IVIEW commissioning and maintenance tool for fibre optic networks includes the following features:

  - An annual licence locked to an engineering laptop for use on multiple networks
  - Full Optic Fibre infrastructure analysis and system qualification
  - The MXP-635-A network nodes are displayed with fault mapping, showing the location of network faults and recovery.
  - Status of nodes and diagnostic support
  - Digital Optical Monitoring (DOM) of all optic fibre transceivers
  - Displays network data traffic before a recovery event
  - Dynamic node monitoring
  - Full report generation for both node and network events on MXP-635-A modules, including graphs for each recovery event

- **MXP-635/IVIEW**

  IVIEW annual licence with the same features as above, limited to 10 nodes.

IVIEW Minimum Requirements

Operating System:	Windows 7 (64 bit), Windows 10 (64bit)
Hardware: Processor:	Intel Core2, 3GHz
Memory:	2048Mbytes (2GB)
Hard disk:	160GB

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)
MXP-635/IVIEW	Fibre Optic iView Commissioning Tool (Limited)
MXP-635/COMM	Fibre Optic iView Commissioning Tool (Interactive)

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Axis EN

Fibre Optic SFP module - Single-Mode

The Small Form Pluggable (SFP) MXP-635-SM (single-mode) is a fibre optic module allowing communications for up to a maximum distance of 20km between fibre optic converters. This SFP module can be easily fitted into the Advanced MXP-635-A and MXP-635-P products.

The SFP module includes an enhanced Digital Diagnostic Monitoring (DDM) interface, which is compliant with SFF-8472. Where the DDM interface allows real time access to the modules operating parameters such as SFP temperature, laser bias current, transmitted optical power, received optical power and transceiver supply voltage.



Approvals

- CE, UKCA, RoHs, WEEE compliant
- EMC: EN 61000-6-2
- EMC: EN 61000-6-4
- Safety: EN 60950

Features

- Single-mode cable type
- 20km reach for 9/125µm (single-mode fibre cable)
- Ultra-Low power module
- Operating data rates up to 1.25Gbps
- 1310nm FP laser transmitter
- Single 3.3V power supply and TTL logic interface
- Hot-pluggable SFP module
- Duplex LC connector interface
- Operating case temperature 0~+70□
- Usage in harsh environments enabled by conformal coating
- Provides Digital Diagnostic Monitoring (DDM) and Digital Optical Monitoring (DOM) Support
- Class 1 laser compliant according to International Safety Standard IEC 60825
- The SFP module consists of three sections:
  - FP laser transmitter
  - PIN photodiode integrated with a trans-impedance preamplifier (TIA)
  - MCU control unit.
- Supports SONET/SDH switch infrastructure and SDH/STM-8; SONET/OC-24 applications
- Compliant with SFP MSA and SFF-8472

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)

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Axis EN

Fibre Optic SFP Module - Multi-Mode

The Small Form Pluggable (SFP) MXP-635-MM (multi-mode) is a fibre optic transceiver allowing communications for up to a maximum distance of 2km between fibre optic converters. This SFP module can be easily fitted into the Advanced MXP-635-A and MXP-635-P products.

The SFP module includes an enhanced Digital Diagnostic Monitoring (DDM) interface, which is compliant with SFF-8472. Where the DDM interface allows real time access to the module operating parameters such as SFP temperature, laser bias current, transmitted optical power, received optical power and transceiver supply voltage.



Approvals

- CE, UKCA, RoHs, WEEE compliant
- EMC: EN 61000-6-2
- EMC: EN 61000-6-4
- Safety: EN 60950

Features

- Multi-mode cable type
- Up to 2km (multi-mode fibre cable)
- Ultra-Low power module
- Operating data rates up to 1.25Gbps
- 1310nm FP laser transmitter
- Single 3.3V power supply and TTL logic interface
- Hot-pluggable SFP module
- Duplex LC connector interface
- Operating case temperature 0~+70□
- Usage in harsh environments enabled by conformal coating
- Provides Digital Diagnostic Monitoring (DDM) and Digital Optical Monitoring (DOM) Support
- Class 1 laser compliant according to International Safety Standard IEC 60825
- The SFP module consists of three sections:
  - FP laser transmitter
  - PIN photodiode integrated with a trans-impedance preamplifier (TIA)
  - MCU control unit
- Supports SONET/SDH switch infrastructure and SDH/STM-8; SONET/OC-24 applications
- Compliant with SFP MSA and SFF-8472

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)

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Axis EN

Fibre Optic SFP Module - Bi-Directional

There are two Small Form Pluggable (SFP) modules, MXP-635-BD/AB (UP) and MXP-635-BD/BA (DOWN). These SFP modules can be easily fitted into the Advanced MXP-635-A and MXP-635-P products. Which, when used in conjunction with each other, provide bi-directional network communication on a single fibre optic cable.

The SFP modules include an enhanced Digital Diagnostic Monitoring (DDM) interface, which is compliant with SFF-8472. Where the DDM interface allows real time access to the module operating parameters such as SFP temperature, laser bias current, transmitted optical power, received optical power and transceiver supply voltage.



Approvals

- CE, UKCA, RoHs, WEEE compliant
- EMC: EN 61000-6-2
- EMC: EN 61000-6-4
- Safety: EN 60950

Features

- Bi-directional communication on a single fibre optic cable (Single-mode cable type)
- Ultra Low power module
- Operating data rates up to 1.25Gbps
- Two types:
  - AB: 1550nm FP transmitter/1310nm receiver
  - BA: 1310nm FP transmitter/1550nm receiver
- 20km reach with 9/125µm (single-mode fibre cable)
- Single 3.3V power supply and CML Logic Interface
- Hot-pluggable SFP's
- BIDI LC or SC receptacle connector
- Operating case temperature 0~+70□
- Usage in harsh environment enabled by conformal coating
- Provides Digital Diagnostic Monitoring (DDM) and Digital Optical Monitoring (DOM) Support
- Support Compliant with the IEEE Gigabit Ethernet standard 802.3
- The transceiver consists of three sections:
  - FP laser transmitter
  - PIN photodiode integrated with a trans-impedance preamplifier (TIA)
  - MCU control unit
- Supports SONET/SDH switch infrastructure and SDH/STM-8; SONET/OC-24 applications
- Compliant with SFP MSA and SFF-8472

Order Codes and Options

MXP-635-A	Fibre Optic Convertor – Active
MXP-635-P	Fibre Optic Convertor – Passive
MXP-635-SM	Fibre Optic SFP Module – Single-mode
MXP-635-MM	Fibre Optic SFP Module – Multi-mode
MXP-635-BD/AB	Fibre Optic SFP Module – Bi-Directional (UP)
MXP-635-BD/BA	Fibre Optic SFP Module – Bi-Directional (Down)

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Remote Battery Temperature Sensor

This peripheral device is a remote battery temperature monitor which should be fitted and used in Rack-Mount and Extended panel enclosures or where batteries are remotely located from the basecard in a separate enclosure.

For Small, Medium, Large & Deep enclosures where batteries are located close to the basecard, the PCB-mounted temperature sensor is suitable.

Features

- Simple to install
- External battery monitoring
- For use with all MxPro 5 series control panels.

Order Codes and Options

MXP-501:	Remote Thermistor for Battery Monitoring

Compatibility

Compatible with all Axis EN series control panels.

Limitations

The Battery Monitoring cable length must not exceed 500mm.

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Axis EN

Sounder Active EOL

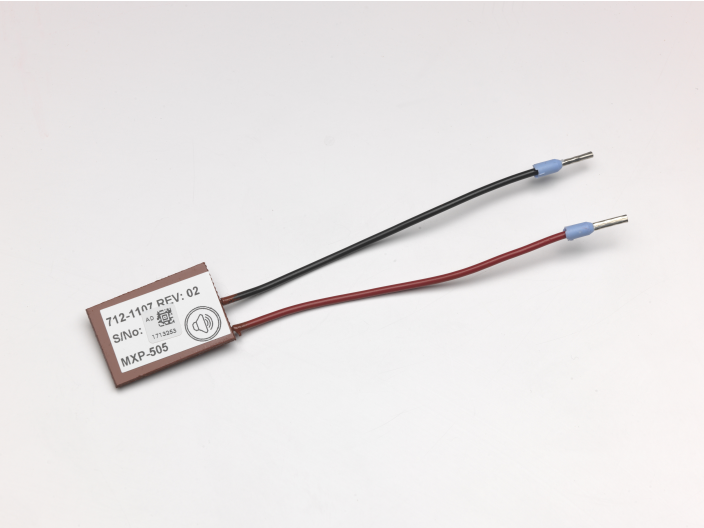
This module provides active monitoring of the sounder circuits in a fire system. Sounder circuits can be configured for compliance with EN54-13 by fitting and programming the use of this peripheral. In order to comply with EN54-13 all panel sounder outputs must be fitted with the Sounder Active EOL.

The Sounder Active EOL is a small and compact active end of line unit, designed for termination and housing in third party sounder output devices.

EN54-13 Compliance

In order to comply with EN54-13, TheAxis EN system must check and warn (prior to an alarm condition) if the voltage at the last device cannot be maintained under the applied alarm load conditions. In order to meet this requirement, the active EOL is required for all panel sounder outputs.

By using this device, third party accreditation assures compatibility as all components are individually tested and certified to the relevant harmonised product standard. This ensures that the system will fully operate, as intended when actually needed.



Features

- For use in EN54-13 compliant systems
- Supports device removal
- Simple to install
- Small and compact
- For use with all Axis EN series control panels.

Order Codes and Options

MXP-505:	Sounder Active End of Line device for Part13

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Axis EN

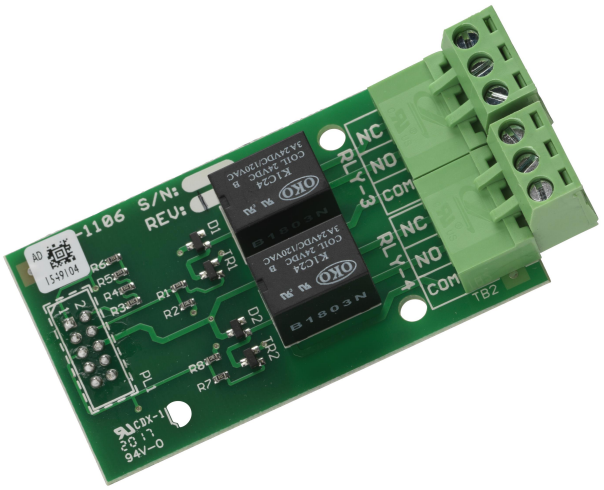
2-Way Programmable Relay Card

The 2-Way Relay Output Card is an internal peripheral for use withAxis EN series control panels.

This additional PCB provides a cost effective solution to providing 2 individually programmable 1 Amp rated, volt free, change over contacts. The 2-Way Programmable Relay Card connects directly to the panel's motherboard in which each output can be individually assigned to an output group to provide full support for dynamic zoning.

Applications

Ideal for any application where a number of programmable outputs are required at the panel, e.g. landlord/tenant interfaces. The system can to be easily configured to provide additional outputs for the more complex cause and effect configurations using standard products.



Features

- Each output individually programmable
- Optional fail-safe setup
- Allow investigation delays
- Can silence option
- Instant response time
- Cost effective against ancillary hardware
- Each output 30V AC/DC, 1 Amp rating
- 3 year warranty as standard

Specification

Power supply	24V DC (taken directly from panel)
Supply current	0mA (30mA in alarm state)
Temperature	0°C to 49°C indoor dry
Humidity	10-95% Humidity (non-condensing)
Dimensions H x W x D mm	80 x 40 x 18
Outputs	2 x programmable 30V AC/DC 1A resistive

Order Codes and Options

Mxp-507:	2-Way Relay Card

Limitations

Each output can be assigned to an individual output group and is fully programmable for any output function allowed within the Axis EN configuration programme. Only one 2 Way Relay O/P Card can be fitted toAxis EN Series Fire Panels providing a total of 4 programmable relays per panel.

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Axis EN

Printer Module

The On-Board thermal printer is an internal peripheral for use with theAxis EN range of control panels.

This additional unit provides automatic, or on demand copy listings of the event log or status information.

The unit is fast and silent during operation has its own in-built battery backup to enable continuous uninterrupted operation even during a mains fail situation.

Spare rolls of thermal paper can easily be replaced due to the mechanism's easy access, front-loading compartment.

On-demand option for printing

- Inputs
- Outputs
- Disablements
- Event Log
- Network Faults

Can be used for printing the panel's event log or configured by the user to automatically print any of the following event types: Fire, Fault, Alarm or Test.

Note: If an onboard printer is to be fitted to the panel with a zone indicator module, use the 050 or 100 modules. The 20 Zone LED card cannot be used.



Features

- Fast instant response
- 3-year warranty as standard
- Fast and silent operation
- Thermal printer
- Cost effective against ancillary hardware

Specification

Printer Type	Thermal, graphical
Printer resolution	384 dots per line
Panel loading in Quiescent State	20mA
Panel loading, continuous printing	25mA
Maximum working temperature	50°C

Order Codes and Options

Mxp-512:	On-board Printer
Mxp-512F:	On-board Printer - Fitted
Mxs-509:	Spare paper roll for Mx-5000 series printer. Thermal, 58mm drum, 15M length.

Compatibility

The On-Board Printer can be fitted to all Axis EN panels. The On-Board printer is supported from panel software revision 16 onwards. It has an automatic operation for Fire, Faults Alarms and Tests.

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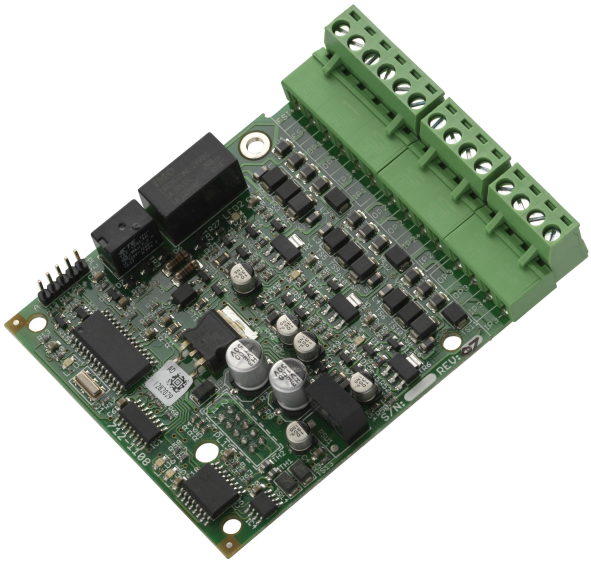
General Routing / Protection Interface

The General Routing interface Card is an optional module to provide fire routing outputs compliant with EN54-2: 1998 Clauses 7.9 and 8.9 and BS5839-1:2002

Applications / Limitations

EN54-2 compliant routing interfaces providing monitored outputs to fire alarm and routing circuits. Circuits are monitored for open and short circuit conditions in both normal and active mode - compliance with EN54-2 and BS5839-1: 2002 Clause 12.2.1a

The outputs will drive relay coils with impedances of between 1kΩ and 5kΩ.



Features

- Two fire routing outputs are provided to differentiate between Call Point (MCP) and Automatic Detector (AFD) fire alarm signals if required.
- Outputs are monitored for open and short circuit wiring issues in both the quiescent and active states, and fault conditions reported on the panel (CIE) display/LED Indicators.
- Outputs are compatible with a wide range of routing equipment.
- Simple to install and configure
- Monitored outputs
- Wide range compatibility

Specification

Output Circuit Spec.	24V DC active, 5V DC monitor
Fire & Fault Outputs	1.0mA monitor mode nominal, 5.0mA-25.0mA active (energised) mode dependent upon coil impendence, 40.0mA maximum short circuit.
Input Circuit Spec.	4x Monitored Input - EOL 10KΩ, operating resistor 470Ω
Operating Voltage	24V DC [Range 19-28V] from panel auxilliary Supply Output.
Panel Loading, standby, AC Mains fail (fault output off)	43mA
Panel Loading, quiescent state (fault output on)	45mA +24mA (1KΩ coil), +5mA (5KΩ coil)
Panel Loading, ALL inputs and outputs active	48mA +72mA (1KΩ coils), +15mA (5kΩ coils)
On-boardIindications	6x LED indicators for outputs active, communications and microprocessor heartbeat
Operating Temperature	0°C to 50°C
Approvals	EN54-2: 1998

Order Codes and Options

Mxp-532:	General Routing / Protection Interface
Mxp-532F:	General Routing / Protection Interface - Fitted

Compatibility

Can be used with all Axis EN series control panels programmed with version 50.07 software or later, compatible with the PC-Configuration tool from version 6.12 or later. The interface connects directly to peripheral bus connection in the panel.

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Axis EN

Dual Input Stretch / Latch Module

The Latch/Stretch Input Card provides monitoring for two momentary switch inputs. The module can be configured for Latch or Stretch modes of operation. The module can be configured for wiring supervision using the end-of-line resistor of the host input device. A reset input is provided for the reset of a latched condition.

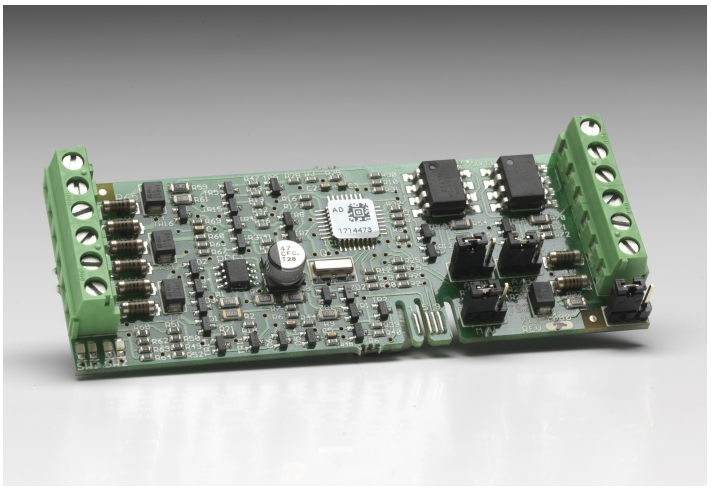
Applications / Limitations

Can be used to monitor the operation of a momentary switched input that has been interfaced to the fire alarm control panel via loop devices or on-board inputs.

Two modes of operation are available for momentary switched operation, Latched or Stretched (30 Seconds).

Can be powered by a separate 24V DC supply, or loop powered.

Common reset input (volt free) allowing reset of the latched condition.



Features

- Two modes of operation - Latched or Stretched
- Monitored or Non-monitored connectivity
- Configurable for Advanced, Apollo, Hochiki and Nittan input circuits
- The module can be loop powered

Specification

Applicable Standards	EN54-2; 1998, EN54-4: 1998
Relative Humidity	-95% Non-condensing
Enclosure H x W x D mm	Plastic ABS recyclable, 130 x 42 x20
DC Supply	24V (17-28V) DC, 10mA
Input Circuit	Volt free/end-of-Line 10K
Output Circuit	Volt free/end-of-line 10K/20K,Max 30V DC
Reset Input Circuit	Volt free
LED Indication	4 x LED input active & wiring fault per input
Weight	40 grams

Order Codes and Options

MXP-053:	Dual Input Latch/Stretch Module

Compatibility

Any volt-free switched input circuit.

End-of-line monitoring optional when used in conjunction with Advanced Electronics, Apollo, Hochiki or Nittan control equipment.

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8-Way Programmable Zone Monitor Card

The Programmable 8-Zone Monitor Card is an optional peripheral unit that provides eight individually programmable zone monitor circuits compliant with BSEN54- 18: 1998 Clause 7.8.

Up to 16 cards can be connected to a multi-loop panel providing a maximum of up to 128 additional zone monitor circuits.

Each zone is fully programmable using the powerful dynamic cause-and-effect rules.

The unit is available as either a printed circuit card only or as a boxed unit.

Applications / Limitations

EN54-18 compliant zone monitor circuit.

Features

- 8 zone circuits - each is monitored for open and short circuit
- Each zone is individually programmable with the available dynamic cause-and-effect rules
- Up to 16 cards can be connected giving a total of 128 additional zone monitors
- 1 relay output for reset
- 16 cards max per control panel totalling
- 128 zone monitor circuits per panel
- Easily configured via PC-NET-003
- 3-year warranty as standard

Specification

Applicable Standards	EN54-18 compatible
Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB Dimensions H x W xD mm	100 x 105 18
PCB Weight	75 grams
Switch/Zone Inputs	8 monitored inputs (680R EOL, 470 active)
PCB Supply	24VDC nominal (21-28VDC), 100mA (quiescent) 500mA (all zones short circuit)
Relay Output (x1)	24VDC, 1A
Fault Input	Volt free, clean contact

Order Codes and Options

Mxp-536:	8-Way Programmable Zone Monitor Card
Mxp-536F:	8-Way Programmable Zone Monitor Card - Fitted

Compatibility

Can be used with all Axis EN series control panels.

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Advanced

Axis EN

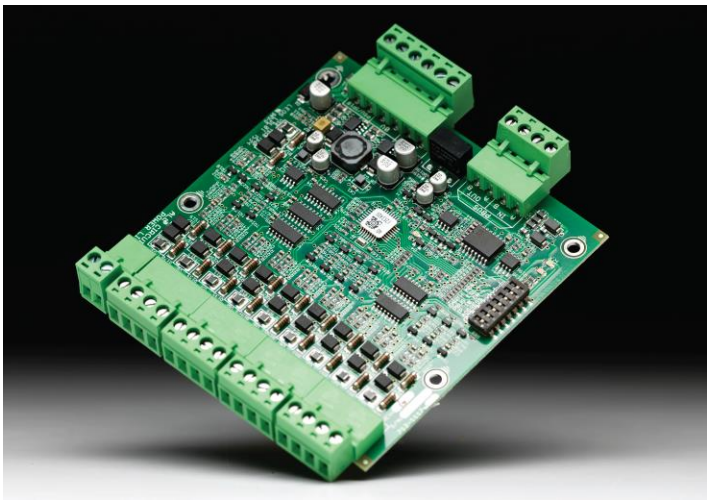
10-Way Programmable Monitored Input Card

The Programmable 10 Way Programmable Monitored Input Card is an optional peripheral unit that provides 10 individually programmable monitored switch inputs.

Up to 16 cards can be connected to an Axis EN series panel providing a maximum of up to 160 additional monitored inputs.

Each input is fully programmable using the powerful dynamic cause-and-effect rules.

The unit is available as either a printed circuit card only or as a boxed unit.



Approvals

EN54-18 approved switch monitor circuit.

Features

- Each input is monitored for open and short circuit.
- Each input is individually programmable for Fire, Fault, Alarm etc.
- Up to 16 cards can be connected providing a total of 160 additional switch inputs.
- Easily configured via PC-NET-003
- 3 year warranty as standard

Specification

Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB Dimensions H x W x D mm	100 x 105 x 18
PCB Weight	75 grams
Switch Inputs	10 Way Programmable Monitored Inputs Card.
PCB Supply	24VDC nominal (21-28VDC), 30mA (quies.) 100mA (all zones short circuit)
On Board Indication	RS485 (transmit/receive) & heartbeat

Order Codes and Options

Mxp-537:	10-Way Programmable Monitored Input Card
Mxp-537F:	10-Way Programmable Monitored Input Card - Fitted

Compatibility

Can be used with all Axis EN series control panels.

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Axis EN

16-way Switch & 48 LED Card

The 16-way Switch & 48 LED Card is an expansion peripheral that offers 16 inputs and 48 outputs that can be configured via the Advanced PC Config Tool.

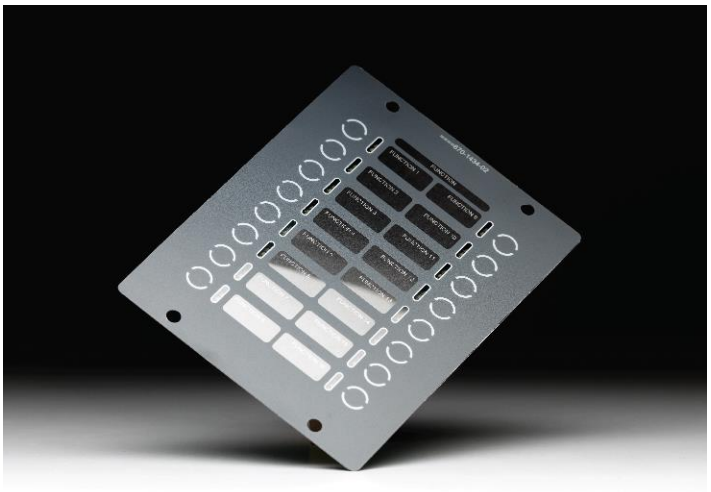
This additional PCB provides a cost effective solution to providing 16 individually programmable push buttons for controlling fire alarm equipment.

Up to 16 cards can be connected to an Axis EN series panel providing a maximum of 256 push buttons and 768 LED outputs.

Each LED output can be individually assigned to an output group to provide full support for dynamic zoning and to indicate when the buttons have been activated.

Applications

Ideal for any application where a number of programmable push button switches are required for evacuation and plant control.



Features

- 16 configurable push buttons
- 48 Programmable LEDs, 3 x LEDs per push button (red, green & yellow)
- Configurable buzzer
- Fast input response
- Up to 16 switch plates for each control panel

Specification

Power supply	18-28V DC (e.g. wired from Panel 24V auxiliary supply)
Supply current	60mA maximum
Temperature	0°C to 49°C indoor dry
Humidity	10-95% humidity (non-condensing)
Dimensions H x W x D mm	168 x 144 x 31
Inputs	16 x push buttons, 1 x PSU monitor
Outputs	48 x LED indicators, 1 x buzzer
Fault Input	Volt free

Order Codes and Options

Mxp-538:	Switch / LED Interface. LED indicators arranged in groups of 3 (Green, Red and Yellow)

Compatibility

Compatible with allAxis EN panels. Requires PC Config Tool version 6.10 or later. Requires panel software Mx-5000-050-07 or later

Units must be mounted locally to their power supply.

Up to 16 16-way Switch & 48 LED interfaces can be connected to the peripheral bus.

Limitations

Each switch/push button can be configured using multiple input actions from the PC Net-003 software. Each LED output can be assigned to an individual output group and is fully programmable for any output function allowed within the Mx configuration program (v6 onwards).

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Axis EN

Multi-Way I/O Mimic Driver Card

The Multi-Way Input/Output Card is an expansion peripheral that offers 16 inputs and 48 LED driver outputs that can be configured via the Advanced PC Config Tool.

This additional PCB provides a cost effective solution to providing a boxed mimic indication and plant control indication panel utilising the internal peripheral bus. No network interface is required.

The Multi-Way Input/Output Card connects directly to the panel's motherboard peripheral bus in which each I/O can be individually programmed.

Applications

Ideal for any application where a number of programmable clean-contact inputs are required for evacuation and plant control. Each switch/push button can be configured using multiple input actions from Advanced's PC Net-003 software.



Features

- 16 configurable clean-contact inputs
- 48 programmable LED driver outputs
- Configurable buzzer
- Fast input response
- Up to 16 switch plates for each control panel
- No network interface required

Specification

Power supply	18-28V DC (e.g. wired from panel 24V auxiliary supply)
Supply current	60mA maximum
Temperature	0°C to 49°C indoor dry
Humidity	10-95% humidity (non-condensing)
Dimensions H x W x D mm	168 x 14 x 31
Inputs	16 x volt free clean-contact, 1 x PSU monitor
Outputs	48 x LED driver outputs, 1 x buzzer
Fault input	Volt free

Order Codes and Options

Mxp-539:	Multi-Way I/O Mimic Driver Card. 16 Input / 48 Output

Compatibility

Compatible with all panels in the Axis EN range. Requires PC ConfigTool version 6.10 or later. Requires Panel Software Mx5000-050-07 or later. Units must be mounted locally to their power supply. Up to 16 Multi-Way Input/Output interfaces can be connected to the peripheral bus.

Limitations

Each LED output can be assigned to an individual output group (maximum 200 output groups per control panel) and is fully programmable for any output function allowed within the Mx configuration program (v6 onwards). Up to 16 Cards can be fitted to anAxis EN series fire panel providing a total of 256 programmable clean contact inputs.

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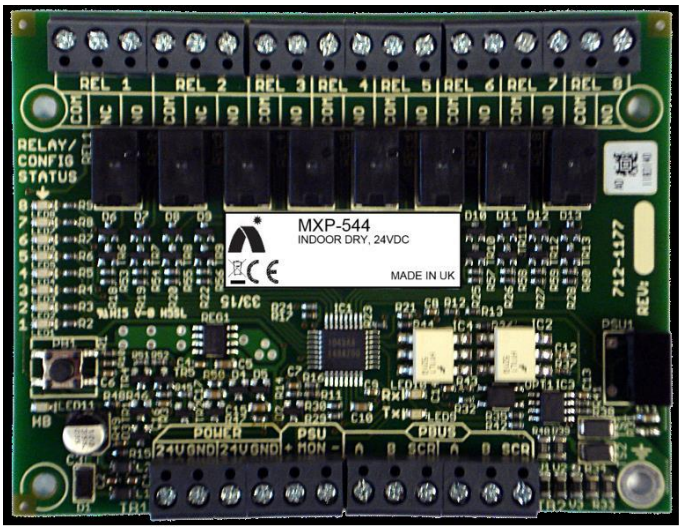
Axis EN

8-Way Peripheral Relay Card

The MXP-544 Peripheral 8-Way Relay Card is an internal module intended for use with the Axis EN range of fire alarm control panels.

Each card provides 8 configurable relay outputs (2 x FORM C, 6 x FORM A). Up to 16 cards may be connected to a panel, allowing for an extra 128 relay outputs (SELV).

The MXP-544 is configured using a positive action sequence involving the on-board push button and LED indicators. This allows the module to be safely configured/inspected while adding an extra reporting capability not previously available to peripheral modules.



Approvals

- EN54-18

Features

- Powered from CIE on local PSU
- Provides 8 configurable relay outputs
- Up to 16 cards can be connected to the peripheral bus = 128 relays

Specification

Power supply	24 VDC
Quiescent current	30 mA (Vs = 24 V)
Max current (O/Ps on)	80 mA (Vs = 24V, 8 Relays on)
Operating temperature	-5°C to 40°C
Relative humidity	95% non-condensing (maximum)
Dimensions H x W x D mm	15 x 105 x 80 mm
Weight	80 g
PSU monitor input	V F
PSU monitor EOL	10 K
PBus EOL	150 R 150 Ω
Relay outputs	SELV, 2 x Form C, 6 x Form A
Contact rating	1 A at 30 VDC (resistive load)
Contact Resistance	100 mΩ
Contact endurance	100,000 operations min (under rated load)

Order Codes and Options

MXP-544:	Peripheral 8-Way Relay Card

Limitations

Cards must be mounted locally to their power supply.

Requires PC-NET-003 Configuration Tool Version 6.91 Onwards

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Axis EN

4-Way Programmable Sounder Card

The Programmable 4-Way Sounder Card is an optional peripheral unit that provides four individually programmable, and monitored, sounder output circuits compliant with EN54-2: 1998 Clause 7.8.

Up to 16 cards can be connected to a multi-loop panel providing a maximum of 64 additional local sounder outputs. Each output is fully programmable using the powerful dynamic cause-and-effect rules, and all outputs are synchronised.

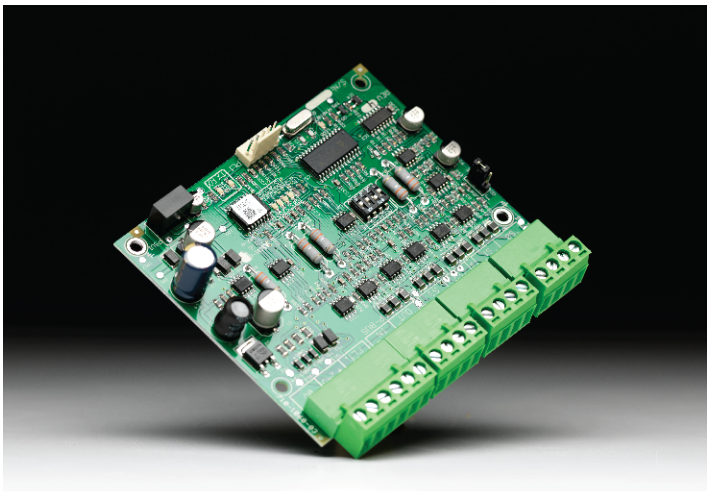
The unit is available as either a printed circuit card only or as a boxed version with integral 4A power supply.

Applications / Limitations

EN54-2 compliant sounder outputs.

Can be used with Axis EN 2, 4 & 8 loop control panels programmed with version 020-02 software, or later, and fitted with base card hardware revision levels 10 (712-1022 Axis EN 4 loop) and 09 (712-1022-002Axis EN 2 loop) or later.

Requires installation of the Peripheral Bus Interface Adaptor card in the panel when using the Axis EN series.



Features

- Each output is 1A rated and monitored for open and short circuits.
- Each output is individually programmable using the Dynamix cause-and-effects rules.
- All outputs can be synchronised in pulsing modes.
- Up to 16 cards can be connected giving a total of 64 additional outputs.
- Each output may be individually programmed
- Easily configured via PC-NET-003
- 3-year warranty as standard

Specification

Applicable Standards	EN54-2; 1998, EN54-4: 1998
Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB Dimensions H x W x D mm	PCB 110 x 86 x 18
PCB Weight	75 grams
Enclosure	Steel, IP30, RAL9002
Enclosure Dimensions H x W x D mm	320 x 345 x 88
Weight	5 kg (excluding batteries)
Knockouts 20mm	7 x top, 2 x bottom
AC Supply	230V AC, 50Hz (+10%, -15%) FUSE T3. 15H250
Standby Battery	2 x 12V, 7AH Sealed lead-acid type (Yuasa recommended)
LED Indications (PCB)	Sounder circuit on, communications TX & RX and heartbeat

LED Indications (Box)	Power and general PSU fault - separate indications of specific PSU fault conditions are available on the PSU.
Outputs (x4)	24VDC 1A

Order codes and Options

Mxp-034:	4-Way Programmable Sounder Card
Mxp-034-BXP:	4-Way Programmable Sounder Card Boxed with 4A PSU

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Axis EN

4-Way Programmable Relay Card

The Programmable 4-Way Relay Card is an optional peripheral unit that provides four individually programmable relay output circuits. Up to 16 cards can be connected to a multi-loop control panel providing a maximum of up to 64 additional local relay outputs.

Each output is fully programmable using the powerful dynamic cause-and-effects rules, and all outputs are synchronised. The unit is available as either a printed circuit card only, or as a boxed version with integral 1A power supply.

Applications / Limitations

Plant control and signalling outputs. Each output can be assigned to an individual output group and is fully programmable for any output function allowed within the Axis EN configuration program. Fitting of the Programmable 4-Way Relay Card in a panel precludes fitting of other panel option cards.



Features

- Each output is 230V, 5A rated
- Each output is individually programmable with any of the available dynamic cause-and-effect rules
- Up to 16 cards can be connected providing a total of 64 additional outputs
- Each output may be individually programmed
- An input is provided to monitor the fault output from a power supply.
- 4 way programmable relay card
- Easily configured via PC-NET-003
- 3 year warranty as standard

Specification

Applicable Standards	EN54-2:1998, EN54-4:1998
PCB Dimensions H x W x D mm	24VDC nominal (18- 28VDC), 22mA (quiescent) 75mA (outputs on)
Dimensions H x W x D mm	100 x 86 x16
Knockouts 20mm	7 x top, 2 x bottom
AC Supply	230V AC, 50Hz (+10%, -15%) FUSE T3.15H250
Standby Battery	2x12V, 7Ah Sealed lead-acid type (Yuasa recommended)
LED Indications (Box)	Power and general PSU fault - separate indications of specific PSU fault conditions are available on the PSU.
Enclosure	Steel, IP30, RAL9002, 3Kg (excluding batteries)
Enclosure Dimensions H x W x D mm	320 x 345 x 88
LED Indications (PCB)	Relay circuit on, communications TX & RX and heartbeat
Outputs (x4)	230V AC, 5A resistive / 230V AC, ½ HP / 30VDC, 5A

Order Codes and Options

Mxp-035:	4-Way Programmable Relay Card
Mxp-035-BXP:	4-Way Programmable Relay Card Boxed with 1A PSU

Compatibility

The Programmable 4-Way Relay Card is compatible with all Axis EN control panels.

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Key Switch Control

The Axis EN control panel range supports direct installation of up to 8 individual key switches.

Applications

The Axis EN 1 loop permits 1 key-switch to be fitted, but the Axis EN 2 & 4 loop control panels allow a maximum of 8.

Features

- Enable/disable controls
- Group isolate to disable I/O across network
- For use to start/enable a class change
- Trapped and un-trapped key switches available
- Control of multi-sensor/device sensitivity mode change
- Simple to install and configure
- Trapped and Un-trapped key switches

Order Codes and Options

Mxp-511(F):	Access Enable Key Switch Assembly for MX-5000
Mxp-518-001(F):	Access Enable Key Switch Assembly for MX-5010/5020
Mxp-518-002(F):	Access Enable Key Switch Assembly for MX-5030
Mxp-516(F):	2-position Key Switch Assembly - Trapped
Mxp-517(F):	2-position Key Switch Assembly - Untrapped
Mxp-519(F):	2-position Key Switch Assembly (Momentary contact) - Trapped
Mxp-515(F):	3-position Key Switch Assembly - Untrapped (requires 2 inputs)
Mxp-515T(F):	3-position Key Switch Assembly - Trapped (Free in centre position)
Mxs-511-KEY	Spare MXP-511 Access Enable Key
Mxs-511:	Spare access enable Key Switch (Lorlin style)
Mxs-516:	Spare 2 position Key Switch - Trapped (Lorlin style)
Mxs-517:	Spare 2 position Key Switch - Un-Trapped (Lorlin style)

Compatibility

Can be used with all Axis EN control panels.

Limitations

If an on-board printer is fitted to the Axis EN 2 & 4 loop control panels then the maximum number of switches fitted is limited to 4. If the 3-position switch is fitted, then two programmable inputs must be available per switch.

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50-, 100-, 200-Zone LED Cards

The Zone LED cards are a range of panel mounted peripheral modules that can be added to theAxis EN series of control panels. The display cards are available in numerous configurations and provide an individual indication of the zone(s) in Fire by default but are also fully programmable.

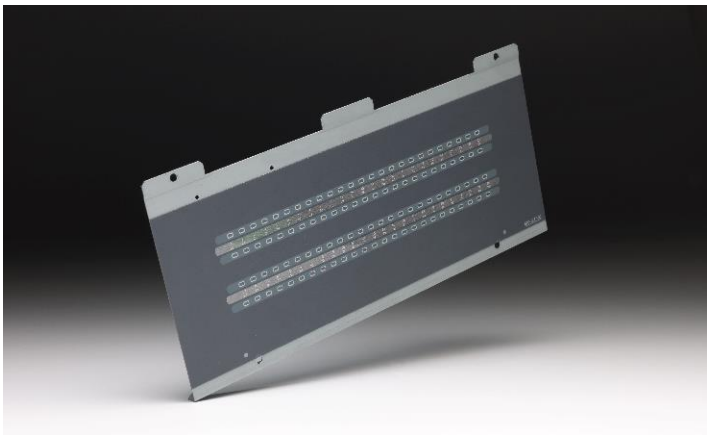
The units fully support dynamic zoning, on networked or larger stand-alone systems, and can be used to provide individual zonal LED indication at one location.

Applications

The zone/LED indicator card can be fitted to allAxis EN control panels to provide an indication of the zone(s) in fire in addition to the panel graphical display. The LED will illuminate when the corresponding zone enters a Fire condition.

This next generation in LED technology also allows the LED to be fully programmed. Each LED can now operate in accordance with the cause-and-effect strategy in which the LED can illuminate upon Fault, Isolation, Output Group plus many more.

LED cards can now be ordered with Red and Yellow LED arrangements or provided with bi-colour LEDs with slide-in labels to assist identifying the origin of the condition.



Features

- Programmable LEDs
- 3-year warranty as standard
- Factory fitted or retrofit
- Supports dynamic zoning
- Fully programmable
- Cost effective against ancillary hardware

Order Codes and Options

Mxp-513M-050RD:	Medium Enc. 50 Zone Fire (Red)
Mxp-513M-050RY:	Medium Enc. 25 Fire (Red) + 25 Fault (Yellow)
Mxp-513M-050YL:	Medium Enc. 50 Zone Fault (Yellow)
Mxp-513L-050RD:	Large Enc. 50 Zone Fire (Red)
Mxp-513L-050RY:	Large Enc. 25 Zone Fire (Red) + 25 Zone Fault (Yellow)
Mxp-513L-050YL:	Large Enc. 50 Zone Fault (Yellow)
Mxp-513L-100RD:	Large Enc. 100 Zone Fire (Red)
Mxp-513L-100RY:	Large Enc. 50 Zone Fire (Red) + 50 Zone Fault (Yellow)
Mxp-513L-100YL:	Large Enc. 100 Zone Fault (Yellow)
Mxp-513L-200RY:	Large Enc. 100 Zone Fire (Red) + 100 Zone Fault (Yellow)
Mxp-513L-050CRY:	Large Enc. 50 Zone Column Format (25 Red + 25 Yellow)
Mxp-513L-050CRYG:	Large Enc. 50 Zone Column Format (30 Red/Yellow + 20 Yellow/Green)
Mxp-513-050RD:	Extended Enc. 50 Zone Fire (Red)
Mxp-513-050RY:	Extended Enc. 25 Zone Fire (Red) + 25 Zone Fault (Yellow)
Mxp-513-050YL:	Extended Enc. 50 Zone Fault (Yellow)

Mxp-513-100RD:	Extended Enc. 100 Zone Fire (Red)
Mxp-513-100RY:	Extended Enc. 50 Zone Fire (Red) + 50 Zone Fault (Yellow)
Mxp-513-100YL:	Extended Enc. 100 Zone Fault (Yellow)
Mxp-513-200RY:	Extended Enc. 100 Zone Fire (Red) + 100 Zone Fault (Yellow)
Mxp-513-050CRY:	Extended Enc. 50 Zone column format (25 Red + 25 Yellow)
Mxp-513-050CRYG:	Extended Enc. 50 Zone column format (30 Red/Yellow - 20 Yellow/Green)

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Axis EN

PENN Peripheral Expanson Network Node

The Peripheral Expansion Network Node (PENN) provides the functionality of the Axis EN Series Fire Alarm Control Panels for use in bespoke graphical mimic, connecting remote inputs and outputs directly to the network, and other special build applications.

The PENN allows a comprehensive range of peripherals to be connected to the network without having to install additional panels.

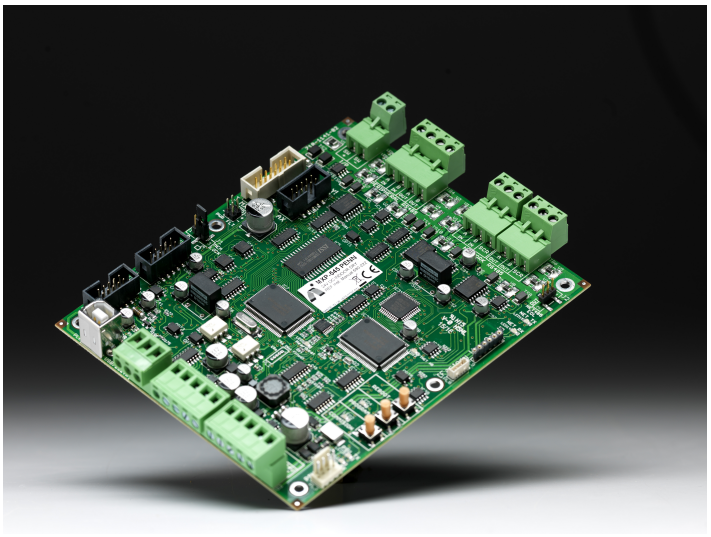
Compatible expansion cards include Input (MXP-537), Relay (MXP-035), Mimic driver (MXP-539), 16-way Switch (MXP-538), Fan/Damper Control (MXP-543), Zone Monitor (MXP-536), Sounder (MXP-034) and ESPA Pager Interface (MXP-547).

Accessories such as a Display Card (MXS-504), Printer (MXP-512), and LED Indicators (MXP-513-xxx) can also be added.

The PENN is pre-built to include either a Standard network or a Fault Tolerant (FT) network interface

The unit is designed for easy wiring installation. “Plug-in” terminal blocks are provided for all connections to the unit. RS232, as well as USB (Type B), are built-in.

The PENN is designed to be installed directly to mounting chassis plates, such as MXM-515-6U, MXM-515-8U, etc. using six fixing screw positions. The chassis assembly can be mounted into MX-5000 and MX-5000R enclosures.



Features

- Lets you install peripherals in remote locations without an additional panel
- Dual Feed 24V DC Power Supply Inputs
- Network in-built – either Standard or Fault Tolerant
- Up to 32 Nodes in Standard configuration and Up to 200 Nodes in FT configuration
- Supports up to 32 PBUS modules (16 of any one type)
- Option to connect standard MX-5000 Display and/or MXP-512 internal printer and/or MXP-513 LED cards
- Switch Input – General purpose or External PSE fault monitor
- RS232 Interface – PC Configuration, External Printer or MXP-547 ESPA
- USB Interface – PC Configuration

Specifications

Power Supply	15-30V DC (24V DC Nominal) – Dual Feed monitored inputs
Supply Current	Standard: 65 mA, Fault Tolerant: 90 mA (typical at $24V_{DC}$)
Operating Temperature Range	-5°C - 49°C
Humidity (non condensing)	95% RH
Dimensions H x W x D	153 x 127 x 25 mm
Wire Gauge	0.5 mm^2 - 2.5 mm^2 (12-24 AWG)
Switch Input	Non-monitored / Monitored (3K3 EOL, 680R active)
Network	Advanced Standard or Fault Tolerant (FT) RS485
PBUS	Advanced Peripheral Bus RS485
Serial Interfaces	USB and RS232 (Isolated)

Order codes and Options

MXP-545	PENN Interface Module - Standard Network
MXP-545/FT	PENN Interface Module - Fault Tolerant Network

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Axis EN

50-Way Network I/O

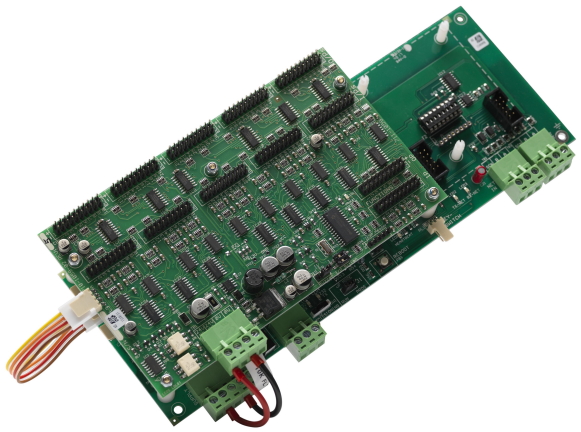
The 50-Way Network I/O provides a convenient and cost effective solution where multiple inputs and outputs are required. It is ideally suited for building control functions such as damper/fan control or sprinkler control where on/off/auto control and healthy/fault or open/closed status indication is required.

The inputs can be configured as toggle (switch) or momentary (push-button) types. The outputs are fully programmable using the powerful dynamic cause and effects rules for output groups 1-50.

In addition to the 50 I/O circuits, dedicated inputs and outputs are also provided. Status outputs include General Fire, Fault, Disablement and Test. A buzzer is also provided for audible annunciation of status changes. Inputs include buzzer mute, momentary input enables/reset and LED test.

The 50-Way Network I/O controller is a stand-alone unit with/without its own EN54-4 power supply and charger. Each input and output on the card is fully programmable using a PC.

An additional 100 LED outputs can be provided using the 100-way driver card – output groups 101-200.



Features

- Over 50 programmable volt free switch/push button type inputs, easily configured via our PC-NET-003 configuration software.
- Over 50 programmable LED driver outputs for energising and providing LED indication.
- Large full colour graphical indication for site maps, building layouts or simply zonal indication.
- Remote location by simply adding the type of mimic interface onto the Ad-net/Ad-net+ Network.
- Supplementary graphical indication
- Zonal or fully programmable LED option
- Fully networkable
- 3 year warranty as standard

Specification

AC Supply (Boxed Versions)	220-240V AC (+10-15%) 50-60Hz 1.6A. Support for up to 2 x 12V 7Ah batteries
DC Supply (PCB) @ 24V DC	18-28V DC 63mA (/FT 101mA) + 0.8mA per LED energised + 1.3mA per switch energised
Output Drive Circuit (56)	3.3V 4mA current limited (for direct LED connection)
Input Circuit (58)	Volt free, dry-contact inputs

Order Codes and Options

Mxp-045*(/FT):	50-Way Network I/O Controller (unboxed)
Mxs-031-2T:	2 position trapped key switch for Mxp-045
Mxs-031-2U:	2 Position un-trapped key switch for Mxp-045
Mxs-031-3U:	3 Position un-trapped key switch for Mxp-045
Mxs-026(F):	High intensity LED (Red/Green/Yellow - Fitted)
Mxp-052(DIN):	Mimic driven 10-way relay card
/FT:	Denotes fault tolerant version

Compatibility

The 50 Way Network I/O is compatible with all Axis EN control panels from software revision 019-04 using the Ad-Net peer-to-peer network. The 50 Way Network I/O is programmable using the Pc-NeT-03 Mx configuration tool from revision 4.19 onwards.

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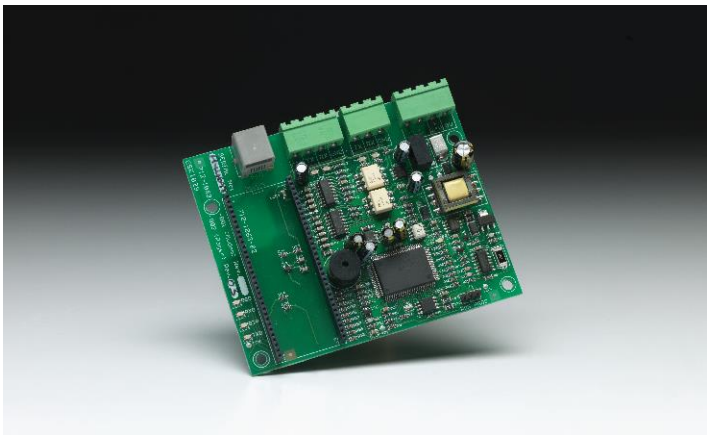
Axis EN

Pager Interface

The Pager Interface is a programmable interface providing connectivity of third party paging systems to theAxis EN control equipment. It utilises the industry standard protocol ESPA 4.4.4 and connects to the equipment via a serial data connection. An optional input function is available to monitor pager fault conditions. Specific event types (e.g. Fire, Alarm, Pre- Alarm, Fault, etc.) can be sent to individual pagers and/or to groups of pagers.

Applications / Limitations

For use with pager systems compliant to ESPA 4.4.4 protocol. If a printer is also required, fit an internal printer assembly.



Features

- Up to 8 configurable shifts per weekday/weekend
- Up to 50 pager groups
- Up to 250 pager addresses
- Each pager address can be configured to cover 2 zone ranges
- Zone and/or point information can be sent to the pager
- User defined texts are available and the basic event type text can be configured
- ESPA 4.4.4 protocol
- Panel mounted or boxed version
- Easily configured via pager PC Software
- 3 year warranty as standard

Specification

Power supply	15-30V DC (e.g. wired from panel 24V auxiliary supply)
Supply current	100mA (typical at 24V DC)
Temperature	-5°C to 50°C
Humidity	95% humidity (non condensing)
Dimensions H x W x D mm	Enclosure: 218 x 300 x 45
Pager Interface	RS232 galvanically (opto) isolated
Fault Input	Non-monitored/monitored (10K EOL, 470R active)
Event Types Supported	Fire Alarm, Test Alarm, Plant Alarm, Pre-Alarm, Fault and Disablement

Order Codes and Options

Mxp-547(F)*:	Pager Interface Card
Mxp-547-BX:	Pager Interface Card (Boxed)
(F)*:	Add F - Fitted (Except Mx-4100, Mx-5101)

Compatibility

PC-NET-011 Configuration program is provided for configuring the pager interface. For compatibility tested pager systems contact your area sales representative. This product can also be used with allAxis EN series panels.

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BMS/Graphics Interface

The BMS/Graphics Interface interface allows BMS systems and graphical PCs to be integrated with the Axis EN series of fire control panels and remote terminals.

The interface is an integral part of the Ad- Net network, permitting the handling of all network traffic and event prioritisation, via a PC, using a simple RS232 connection.

Multiple interfaces can be connected to the network catering for sites requiring control from a number of graphical PCs.

Applications

Provides connection to various 3rd party graphics systems.

Features

- Sector based programming
- Each BMS interface is individually programmable with the available dynamic cause and effects rules
- Standard & fault tolerant network versions
- Easily configured via PC-NET-003
- 3 year warranty as standard

Specification

Supply Voltage Input	18-28V DC
Operating Temperature	-5°C to 50°C
Relative Humidity	95% non-condensing (maximum)
PCB Dimensions H x W x D mm	88 x 242 x 18
Weight	75 grams
Indications	On-board LED indicators for heartbeat, network Rx/Tx and RS232 Rx/Tx
Supply Current	Standard 48mA (/FT 86mA) at 24v DC
Serial Interface	Isolated RS232 interface for BMS/PC
Fault Input	Monitored volt free clean contact
Enclosure Dimensions H x W x D mm	218 x 300 x 45
Enclosure Weight	2 Kg

Order Codes and Options

Mxp-510-BX:	Standard Network BMS Interface Boxed
Mxp-510-BX/FT:	Fault-Tolerant Network BMS Interface Boxed
Mxp-510:	Standard Network BMS Interface (Card only)
Mxp-510/FT:	Fault Tolerant network BMS interface (Card only)

Compatibility

Can be used with any Ad-NeT or Ad-NeT+ network series control panels.

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Axis EN

Advanced Commander

The Advanced Commander is a powerful IP based solution for customers requiring protocol translation between their Advanced Fire Control Equipment and a Building Management System (BMS).

The device can be used as a simple bridge between manufacturer's components providing seamless integration and delivering guaranteed performance.

The conversion protocols supported by the Advanced Commander are those generally found in use by the most common Building Management Systems on the market today and are currently 'BACNet' or 'Modbus'.

The Advanced Commander supports up to 640 Objects/Tags of information, which can be configured and passed between network components and delivered to the Building Managements Systems (BMS) using TCP/IP technology.

The Advanced Commander has powerful Windows®based software management suite built-in to provide engineers with the ability to write 'Cause & Effect strategy, check data logging, calendar, and timer functions.

TCP/IP connectivity permits the Advanced Commander to be located locally to the distributed network of Fire Control Panels, but at the same time caters for remote programming and Building Management System (BMS) access.



Features

- BacNet/Modbus Protocol Integration
- 640 Configurable Object/Tags
- Windows® Based Programming
- Powerful IP Controller
- Configurable on a Zone/Point basis per Object for Fire, Fault, Alarm & Isolation
- Engineer configurable over TCP/IP
- Supports a single Ad-Net network
- Small & Compact
- Low Voltage 12vDC - 24vDC
- Configurable using specialized Cause & Effect

Specification

Processor	Embedded AMD Low Power CPU
Memory	512 MB RAM
Disk Space	4Gb Industrial Solid State Hard Drive
Graphics	Not Applicable
Sound Card	Not Applicable
USB Port	Not Applicable
Ethernet	1 x Ethernet Port
Serial Port	2 x Serial port for communication with Ad-Net Networks We recommend ordering the UP-001 (RS232 Cable) for interconnection to Mxp-510-Bx.
PS/2 Socket	Not Applicable
Dimensions	45.0mm(H) x 126mm(W) x 82mm(D)
Power Requirements	1 x Terminal Socket for DC Power Input 12vDC - 24vDC +/- 10% (Not supplied)

Internal Battery	1 x Internal Lithium Battery (Size 1/2AA - 3.6v)
Operating Temperature	0 - 50 Deg C
Warranty	12 Month Warranty

Order Codes and Options

Mxp-642:	Commander - BacNet/ModBus (IP) Interface
Mxp-642C:	Commander - BacNet/ModBus (IP) Interface - Configured
23-PSU/250:	12V Regulated Power Supply Unit
UP-001:	RS232 9-Way to 3-Way cable
Mxp-510-Bx:	Standard Network BMS Interface Boxed
Mxp-510-Bx/FT:	Fault-Tolerant Network BMS Interface Boxed

Compatibility

The Advanced Commander is compatible with all Axis EN control equipment, but requires the Mxp-510-Bx (BMS/Graphical Interface) to be installed on the Ad-Net network for connectivity to the Commander.

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Graphical Control Software

The Graphical Control Software is a highly configurable solution to customers requiring presentation of their sites via a Graphical method.

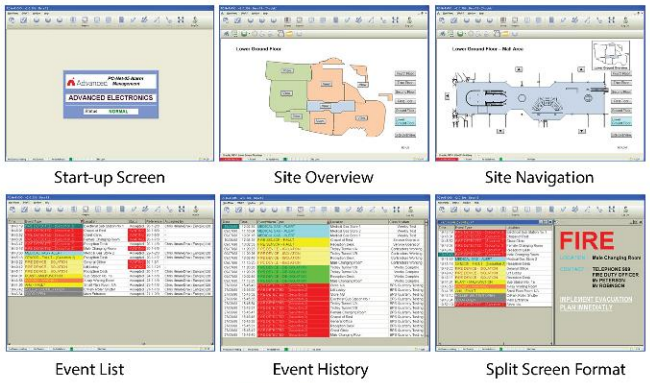
End users are presented with site maps, buttons, text, and images to easily monitor, navigate, and control the fire alarm equipment installed on-site.

Simple control buttons permit the user to Enable/Disable field devices, and can also provide a means for Silence/Reset functionality. Analogue values can also be obtained from all field devices via the menu selections.

The software also includes an extensive History Log to monitor all activations received, and can be easily analysed using the extensive search methods available.

The software provides a cost effective solution for all types of installation, and is suitable for use with single panel to multi-site applications.

Applications / Limitations:
The BMS/Graphics Interface will be required for interfacing all control panels to a PC.
There is limited functionality in sub address support.
Peripheral bus devices are not supported.



Start-up Screen | Site Overview | Site Navigation

Event List | Event History | Split Screen Format



Features

- Standard ‘Windows’ based PC application
- Ad-NeT Network Compatible
- Windows providing Graphics, Text, or Event List
- User-friendly Configuration
- Event and Alarm History
- Zoom Graphic/Symbol Control

Specification

Processor	Intel Pentium i5 or higher (32 bit and 64 bit OS supported)
Recommended Operating Systems	Windows 7 or 10 Pro 32/64 bit
Memory	Memory 4Gb RAM (Minimum Recommended)
Disk Space	250Gb Hard Drive (Minimum Recommended)
Graphics	XGA Graphics Accelerator supporting a minimum 1024 x 768 resolution
Sound Card	Windows compatible sound card & speakers / On-board sounder required for event notification
Monitor	Minimum 17” and support a screen resolution of 1024 x 768
USB Port	Required if using a USB port software dongle – Confirm at time order is placed for software
Printer	Optional

Serial Port	1 x Serial port for communications with Graphics Interface. (Additional serial ports may be necessary if connectivity to other services are required)
CD ROM Drive	Required for software installation
Backup Device	Recommended
Warranty	A PC with on-site warranty support is recommended
Options	**Touch-Screen Monitor (Minimum Specification suggested):** 17” supporting a screen resolution of at least 1024 x 768 Any resolution above 1024 x 768 can be supported however, Graphical bitmaps must be created in the appropriate format for the resolution selected. If monitors are to be used in a Portrait manner a horizontal screen resolution of at least 950 pixels must be available. 1 x Additional Serial / USB port for communications with Touch Screen Controller

Order Codes and options

Pc-Net-005-L1:	MxPro Graphical Control Software (Standard Version – Connectivity of 3 Node max)
Pc-Net-005-L2:	MxPro Graphical Control Software (Standard Version - Connectivity of 15 Nodes max)
Pc-Net-005-L2P:	MxPro Graphical Control Software (Premium Version - Connectivity of 15 Nodes max)*
Pc-Net-005-L3:	MxPro Graphical Control Software (Standard Version - Connectivity of 200 Nodes max)
Pc-Net-005-L3P:	MxPro Graphical Control Software (Premium Version - Connectivity of 200 Nodes max)*
Pc-NeT-005-SWM:	Smart Watch Module
PC-NeT-005-SWM4R:	Smart Watch Module - 4 Inputs
PC-NeT-005-SCU:	Smart Cube Unit
*:	Package options can be found on the following page.

Compatibility

The Pc-Net Graphical Control Software is compatible with all Axis EN control equipment.

Package Options

The regular PC-NET-005 package in each level contains the basic software, which allows for connection to other systems over TCP. The premium software version (PC-NET-005L* P) also includes all of the available features and options shown below.

Groups

This option allows PC Net terminals to communicate with one another using a TCP/IP network. Groups can connect masters to masters or masters to slaves. The Smart Cube also connects to a PC Net terminal using this option.

The Groups line is monitored and should a network connection go down, each PC net terminal will report there has been a connection error.

Slaves

This option is a ‘No’ control version of the PC net software. A slave will allow for 24 hours, real time monitoring from a master terminal with reporting and accept alarm capabilities but will not allow control of the panel and devices. A slave will gather its information from a master and cannot be connected to a panel or panel network.

Event Printer

This option gives users the ability to connect Line printers to the PC net terminal. With recent developments in the software, the capability to automatically print a graphic from a normal printer or laser printer in an alarm condition now comes as standard on all packages.

Service and History Mode

Normally an additional module, the SMART (Service Management and Reporting Tool) allows users to produce service reports which accurately show the total percentage of devices being tested on an annual basis. This module can be used by both the end user and Service provider as a way to demonstrate value adds and commitment to testing 100% of sites devices.

Auto Update Module

When more than one PC Net is connected in a group the standard practice when upgrading one is to take a backup and travel to each terminal to restore each one independently. The new auto update module allows a user to makes changes on one master PC Net and propagates the changes to any other master/slave connected via groups. This mimics a client/server application and drastically reduces upgrade times.

SMS Texting (requires additional hardware & Licence key upgrade - POA)

When an event occurs a text message is sent to one or more mobile phones notifying a person/ persons of that event. With additional hardware (to be quoted separately) the PC Net can send event information via text message to multiple numbers as well as filtering messages for certain numbers only e.g. Fires go to Estates, Faults go to Engineers. SIM cards are to be supplied by the customer.

Email Module(requires additional hardware & Licence key upgrade - POA)

The PC Net is now capable of send emails when an event occurs. Each event can be sent to a multitude of addresses. This means for example that Fire events can be sent to person A,B and C whilst faults are sent to person X, Y and Z. Email can be configured to only be sent during certain times. Two types of email can be sent. Either a single alarm message or a generalised overview of alarms in a certain period of time.

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Axis EN

Smart Watch Module

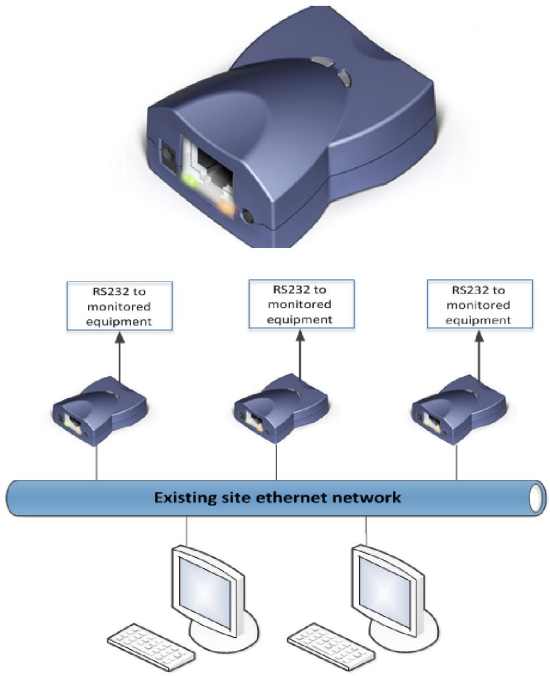
The Smart Watch Module (SWM) is a device used in conjunction with the PC-Net Graphical Software Suite offered by Advanced and is used for the control and diagnostics of remote site applications.

The Smart Watch Module (SWM) uses Static TCP/IP addressing over Local Area Network (LAN) or Wide Area Network (WAN) applications limiting the need for additional cabling and allowing remote sites to be monitored over a network from a centrally located Graphical Software Suite.

The Smart Watch Modules (SWM) clever use of TCP/IP technology provides the user with an ultimate level of control for all their Fire products worldwide.

The SWM is supplied in two variations, one for remote control and diagnostics of Addressable System Installations and the other for Conventional.

Please see parts list below for ordering purposes.



Features

- Small and Compact
- Remote Network Control & Diagnostics
- TCP/IP Communication via Static IP
- Direct connectivity to BMS/Graphical Interface via RS232
- Connect up to 255 Remote Sites
- Supports up to 15 remote panels per site
- Configured using Graphical Software

Specification

Processor	Intel Pentium 4 Processor, 1.8 GHz or higher (32 bit and 64 bit OS supported)
Recommended Operating Systems	Windows XP Professional SP3 / Windows 7 Pro
Memory	Memory 512 MB RAM (Minimum Recommended)
Disk Space	40Gb Hard Drive (Minimum Recommended)
Graphics	XGA Graphics Accelerator supporting a minimum 1024 x 768 resolution
Sound Card	Windows compatible sound card & speakers / On-board sounder required for event notification
Monitor	Minimum 17” and support a screen resolution of 1024 x 768
Parallel Port	Required if using a parallel port software dongle – Confirm at time order is placed for software
USB Port	Required if using a USB port software dongle – Confirm at time order is placed for software

Printer	Optional
Serial Port	1 x Serial port for communications with Graphics Interface. (Additional serial ports may be necessary if connectivity to other services are required)
CD ROM Drive	Required for software installation
Backup Device	Recommended
Warranty	A PC with on-site warranty support is recommended
Options	**Touch-Screen Monitor (Minimum Specification suggested):** 17” supporting a screen resolution of at least 1024 x 768 Any resolution above 1024 x 768 can be supported however, Graphical bitmaps must be created in the appropriate format for the resolution selected. If monitors are to be used in a Portrait manner a horizontal screen resolution of at least 950 pixels must be available. 1 x Additional Serial / USB port for communications with Touch Screen Controller

Order Codes and Options

Pc-Net-005-SWM:	Smart Watch Module (1 - 3 Panels)
Pc-Net-005-SWM6:	Smart Watch Module (4 - 6 Panels)
Pc-Net-005-SWM15:	Smart Watch Module (7 - 15 Panels)
Pc-Net-005-SWM4R:	Smart Watch Module - 4 Inputs

Compatibility

The Pc-Net Graphical Control Software is compatible with all Axis EN control equipment.

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