

MMX-4017-12N NETWORK FIRE ALARM CONTROL PANEL



MMX-4017-12N and DSPL-420DS (sold separately)
Display, Backbox and Door are sold separately

Description

For projects where flexibility is needed, Secutron's MMX-4000 Series is a powerful multi-protocol solution. MMX-4017-12N is designed to meet virtually any application of detection, control, notification, and emergency communications. Features such as fire detection & alarm, audio/voice evacuation, BACnet, Boolean logic, networking, and graphical workstation support allow this modular solution to accommodate projects from the simplest systems up to the most complex solutions.

- MMX-4017-12N supports multiple intelligent protocols:
 - MIX-4000 Devices
 - Advanced Protocol (AP)
 - Classic Loop Interface Protocol (CLIP)
- Multiple User Interface Options including:
 - 80 characters or 960 character back-lit LCD with the user-friendly menu.
 - LED displays adders
 - Up to 7 remote annunciators per node

Features

- Main Processor Board with built in Network card interface, Voice Evacuation System Interface, and IP Port for OpenGN Workstation or BMS Integration
- Supports both 80 character and 960 character back-lit LCD displays with user friendly menu
- Expandable up to 28 SLC
- Sub-addressing to optimize the number of devices in each loop
- Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each with built-in sync protocol
- Class A, Class X or Class B analog loop(s)
- Compatible with conventional detectors using DM-1008A Eight Initiating Circuit Module or MGC MIX-4042 Conventional Zone module, refer to document LT-1023SEC for compatible detectors
- User Interface Tags and Labels in English, French, Italian, Spanish, Portuguese, Arabic*, Hebrew*, Chinese*, Japanese*, Korean* and Russian* (*needs DSPL-2440DS or RAXN-4000LCDG)
- Tags only: it accepts all languages supported by Windows 10 (requires DSPL-2440DS or RAXN-4000LCDG)
- Boolean Logic Engine for complex sequences of Operations
- Four Alarm Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- RS-232 output for remote system printer or terminal
- RS-485 port for system expansion
- Ethernet port for OpenGN, BACNet and Webserver
- Built in BACNet for BMS System Integration
- Built in Webserver for Remote Event Notification
- Audio Message Sequencer
- Two Event History Logs; one for Alarm-related events (5000 events) and one for all events (5000 events)
- System can be configured without taking the panel off-line
- Supports three configuration files (current, previous and next configuration) with "hot swap" support
- Remote diagnostics via a built-in web server
- UL listed for Smoke Control (UUKL).



Features cont'd

MIX-4000 Devices Features

For new or retrofit expansion of existing applications, supports up to 240 MIX-4000 devices per SLC

Supports:

- Photo, Heat, and Multi-criteria Sensors
- Optional Built-In Isolation on Sensors
- Multiple Input and Multiple Output modules
- Group activation on the output to speed up actions on the outputs

AP Protocol Features

Advanced Protocol (AP) supports up to 318 devices per SLC (159 sensors & 159 modules). Supports:

- Smoke, Heat and Fire/CO detection
- Low Frequency 520 Hz sounder base support on both the addressable loop and through the audio/voice evacuation system.
- Interrupt operation on input side to speed detection of an event communication back to the panel
- Group activation on the output to speed up actions on the outputs

CLIP Protocol Features:

- Address range for sensors S1-S99 - address range for modules M1-M99.
- Wide range of addressable devices available.

Networking Features

The network configuration allows multiple Secutron MMX-4000 Series control panels to be connected using supervised Class A/B circuits to expand the available SLCs, input circuits, visual indication zones, programmable notification appliance circuits, relay outputs and monitor points in the application. The network interface module creates a robust peer-to-peer network via a proprietary protocol that ensures network segments operate independently in case of network impairment. The high baud rate of the network allows for multiplexing of control, audio, and telephony communications over a single copper or fiber interface using advanced compression algorithms. Twisted-Pair Copper, Single-Mode Fiber & Multi-Mode Fiber networking is supported.

- Up to 63 nodes
- Peer-to-peer network communications
- Fully integrated digital network audio and control over a single pair of copper wire or fiber optic cable (single or multi-mode)
- Remote diagnostics via built-in web server and standard Ethernet port in every node
- Style 4 (Class B) or Style 6 or 7 (Class A) network wiring configuration

Electrical Specifications

Primary Input Power	120VAC 60Hz / 240VAC 50Hz 4 Amps / 2 Amp (primary)
Battery Type	24VDC Gel Cell / Sealed lead acid

Enclosures



BBX-1072ARDS Enclosure

The BBX-1072ARDS black enclosure supports one MMX-4017-12N and up to 42 AH Batteries. The enclosure features the universal CAT-30 lock and a removable door for easy installation and servicing.

Dimensions: 32 1/2"H x 25"W x 6 1/2"D



MXX-BB-1002WP – Outdoor Weather Protected Enclosure

The MMX-BB-1002WP is a complete enclosure that comes with either a RED door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation and one RAX1048TZDS-CC Adder Annunciator, which provides up to 48 points of annunciation. RAM-1032TZDS-CC and RAX1048TZDS-CC are ordered separately to match the UL installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC and RAX-1048TZDS-CC must be ordered separately to match UL installation requirements.

Dimensions	17-15/16" H x 12-15/16" W x 3-1/2" (456mm x 329mm x 89mm)
Rated for Outdoor Environment	+50°C to -40°C (-122°F to -40°F)
Wet Location	95% R.H. @60°C

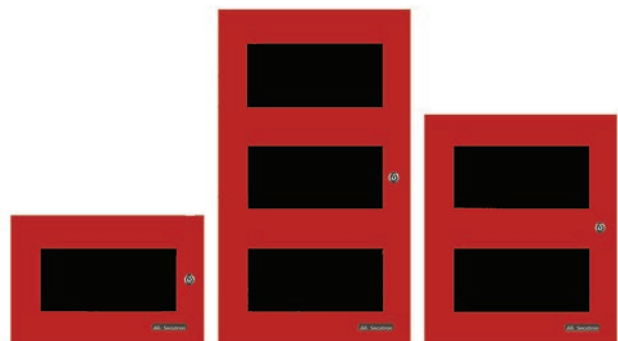


MMX-BB-1001WP – Outdoor Weather Protected Enclosure

The MMX-BB-1001WP is a complete enclosure that comes with a RED door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation. RAM-1032TZDS-CC is ordered separately conform with the UL installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC must be ordered separately to match UL installation requirements.

Dimensions	11-5/32" H x 12-15/16" W x 3-1/2" (283mm x 329mm x 89mm)
Rated for Outdoor Environment	+50°C to -40°C (-122°F to -40°F)
Wet Location	95% R.H. @60°C



MMX-BB-1001 / 2 / 3 – Remote Annunciator Enclosures

The MMX-BB-1000 Series comes complete with a backbox, door and hinge. The enclosures doors come with Lexan windows, two keys and a durable lock. The enclosures can handle the RAM-1032TZDS, RAX-1048TZDS, Main Annunciator Chassis.

MMX-BB-1001DR	9" H x 12.75" W x 1.85" D
MMX-BB-1002DR	18" H x 12.75" W x 1.85" D
MMX-BB-1003DR	26.4" H x 12.75" W x 1.85" D

Displays



DSPL-420DS Main Display Module

The DSPL-420DS Main Display Module provides the MMX-4017-12N with a 4-line by 20-character backlit LCD display, Common Controls buttons and Four Status Queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Monitor. The DSPL-420DS occupies one display position in the MMX-4017-12N inner door.



DSPL-2440DS Graphical Main Display Module

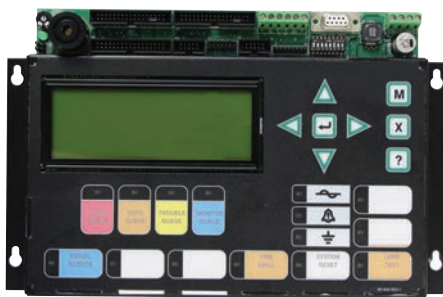
The DSPL-2440DS Graphical Main Display Module provides the MMX-4017-12N with a 24-line x 40-character backlit LCD display, common controls buttons and four status queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Monitor. The DSPL-2440DS occupies one display position in the MMX-4017-12N inner door.



DSPL-420-16TZDS Main Display Module

The DSPL-420-16TZDS Main Display Module provides a 4-line by 20-character backlit LCD display, Common Control buttons and Four Status Queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Monitoring with an additional 16 LED points of annunciation. The DSPL420-16TZDS occupies one display position in the MMX-4017-12N inner door.

Remote Annunciators



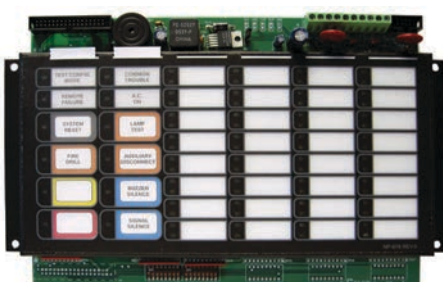
RAXN-4000LCD Remote LCD Annunciator

The RAXN-4000LCD Remote LCD Annunciator is equipped with a 4-line x 20-character back-lit alphanumeric LCD display that provides an exact replica of the main MMX fire alarm control panel display. The RAXN-4000LCD occupies one display position in the MMX-BB-1000 Series enclosures



RAXN-4000LCDG Remote Graphic LCD Annunciator

The RAXN-4000LCDG Remote Graphic LCD Annunciator is equipped with a 24-line x 40-character back-lit graphical LCD display that is used to display 9 events per page. Each event is displayed over 2 lines with 40 characters per line allowing emergency information to be displayed in easy to read format. The RAXN-4000LCDG occupies one display position in the MMX-BB-1000 Series enclosures.



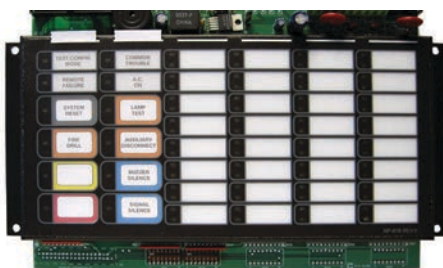
RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator

The RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS-CC has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. The RAM-1032TZDS-CC occupies one display position in the MMX-BB-1001WP or MMX-BB-1002WP enclosures.



RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module

The RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDSCC connects to the main panel or either the RAXN-4000LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS-CC occupies one display position in the MMX-BB-1002WP Series enclosures.



RAM-1032TZDS Main Remote LED Annunciator

The RAM-1032TZDS Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. The RAM-1032TZDS occupies one display position in the MMX-BB-1000 enclosures.



RAX-1048TZDS Programmable LED Annunciator Module

The RAX-1048TZDS Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDS connects to the main panel or either the RAXN-4000LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS occupies one display position in the MMX-4017-12N, MMX-BB-1000 Series enclosures.

Graphic Annunciator Driver Modules



MGD-32 Master Graphic Driver Module

For use with MR-401 and MMX-4000 Series Fire Alarm Control Panels. The MGD-32 Master Graphic Driver Module provides common control inputs for the switches such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test and Acknowledge



AGD-048 Adder Graphic Annunciator Adder Driver Board

The AGD-048 Adder Graphic Driver Module can be used with the MGD-32 to support an additional 48 supervised outputs.

Graphics Software

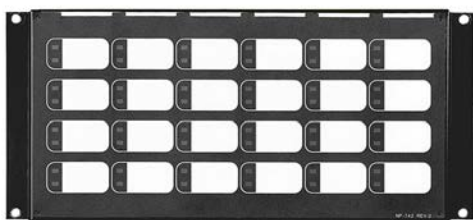


Open Graphic Navigator (OpenGN)

Open Graphic Navigator (OpenGN) is a centralized fire alarm management system that provides building or campus monitoring. As a powerful integration tool, OpenGN allows operators to monitor remote sites from multiple workstations located anywhere in the world. OpenGN displays monitored buildings and campuses in both 2D and 3D representations, and is highly customizable.

Model	Description
OGN-FLSLIC-ONE	Single Fire Alarm Control Panel License Requires: OGN-KEY (sold separately)
OGN-FLSLIC-EXP	Fire Alarm Control Panel License for 2-9 Connections Requires: OGN-KEY(sold separately)
OGN-FLSLIC-STD	Fire Alarm Control Panel License for 10-99 Connections Requires: OGN-KEY (sold separately)
OGN-FLSLIC-ENT	Fire Alarm Control Panel License for 100+ Connections Requires: OGN-KEY (sold separately)
OGN-KEY	OGN License Key Stick

Programmable Modules



IPS-2424DS Programmable Input Switches Module

The IPS-2424DS provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424DS connects to the main panel or the RAXN-4000LCD when mounted remotely. The IPS-2424DS occupies one display position in the MMX-4017-12N, MMX-BB-1000 Series enclosures.



FDX-008W/KI Fan Damper Module

The FDX-008W/FDX-008WKI Fan Damper Control Module provides individually programmed circuits which can be used for fan or damper control. The FDX-008W/FDX-008WKI connects to the main panel or the RAXN-4000LCD and occupies one display position in the MMX-4017-12N, MMX-BB-1000 Series enclosures.



IPS-4848DS Programmable Input Switches Module

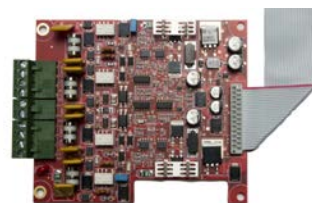
The IPS-4848 provides 48 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-4848DS connects to main control unit or the RAXN-4000LCD when mounted remotely. The IPS-4848DS occupies one display position in the MMX-4017-12N, MMX-BB-1000 Series enclosures.

Adder Loop Controller Modules



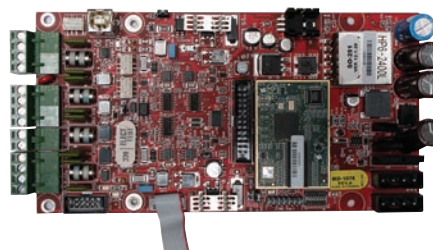
ALCN-960MISO Isolated Quad Loop Adder Module

For MIX-4000 devices, the ALCN-960MISO Isolated Quad Loop Adder Module provides two Signaling Line Circuits (SLC) with ground fault detection to the system consisting of 240 MIX-4000 devices per loop. The ALCN-960MISO can be expanded with the use of the ALCN-960D Daughter Board Module. The ALCN-960MISO occupies one module slot.



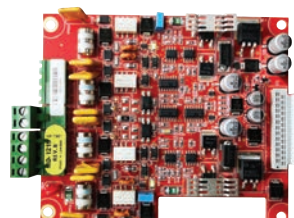
ALCN-960D Daughter board for ALCN-960MISO

For MIX-4000 devices, the ALCN-960D Daughter Board provides an additional two SLC loops when connected to the ALCN-960MISO Isolated Quad Loop Adder Module. The daughter board mounts on top of the ALCN-960MISO.



ALCN-4792MISO Isolated Quad Loop Adder Module

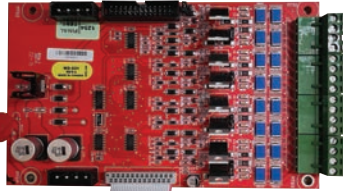
The ALCN-4792MISO Isolated Quad Loop Adder Module provides two Signaling Line Circuits (SLC) with ground fault detection to the system consisting of 159 Analog Sensors and 159 Addressable Modules per loop. The ALCN-4792MISO can be expanded with the use of the ALCN-792D Daughter Board Module. The ALCN-4792MISO occupies one module slot.



ALCN-792D Daughter board for ALCN-4792MISO

The ALCN-792D Daughter Board provides an additional two SLC loops when connected to the ALCN-4792MISO Isolated Quad Loop Adder Module. The daughter board mounts on top of the ALCN-4792MISO.

Adder Hardware Modules



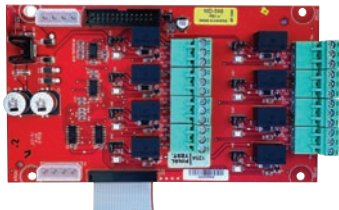
DM-1008A Eight Initiating Circuit Module

The DM-1008A provides 8 Style B (Class B) or 4 Style D (Class A) Initiating Circuits configurable for Alarm, Supervisory or Trouble zones. The DM-1008A occupies one module slot.



SGM-1004S Four Notification Appliance Circuit Output Module with Built-in Synchronization

The SGM-1004S provides up to four indicating circuits each rated at regulated 24 VDC/FWR 1.7 Amps (5 Amps maximum per SGM-1004S) to signal devices such as strobes, bells, horns, etc., and for special applications it is rated at 33 VDC/FWR 2.1 Amps (5 Amps maximum per SGM-1004S). Each of the indicating circuits can be configured as non-silenceable (steady) or silenceable. SGM-1004S enables the compatible fire alarm control panels to have synchronized NAC circuits.



RM-1008A Eight Relay Circuit Module

The RM-1008A provides the system with eight individual configurable relays per module. Each relay provides one Form C contact rated at 28 VDC @1 Amp (resistive load) as well as a Green LED to indicate that the relay is active. The RM-1008A occupies one module slot.

Network Controller Modules



FNC-2000 Fire Network Controller Module

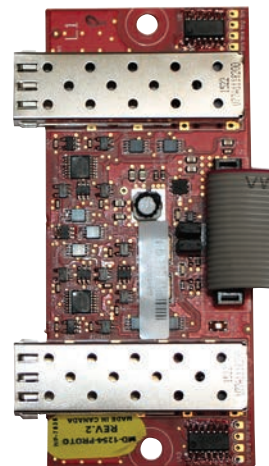
The FNC-2000 provides network capability to the system. One Fire Network Controller Module is required per network node panel. In addition the FNC-2000 provides an interface for adding an optional "FOM-2000-UM" Fiber Optic Network Adder Module. The FOM-2000-UM allows for single-mode or multi-mode fiber optic communication on a MMX.



FOM-CONN-MM



FOM-CONN-SM



FOM-2000-UM

FOM-2000-UM Fiber Card Universal Mode

Allows for single-mode or multi-mode fibre optic communication on a MMX network. Add FOM-CONN-SM and FOM-CONN-MM

FOM-CONN-MM Fiber Optic Connector Multi-Mode

Fibre Optic Module Connector Multi-mode (pack of 2). Must use a FOM-2000-UM

FOM-CONN-SM Fiber Optic Connector Single-Mode

Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM

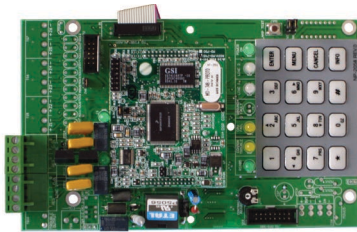
Power Supply Expansion



INX-10A Intelligent Booster Power Supply

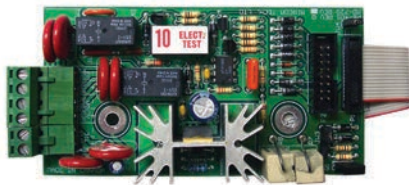
Secutron's INX-10A is an Intelligent NAC expander/ power supply that works with listed compatible Intelligent fire alarm control panels. Available in a 10 Amp configuration, the INX-10A can extend the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. In addition, the INX-10A has the ability to operate with any UL Listed 24 VDC fire alarm control panel to provide Notification Appliance Circuit expansion.

Adder Auxiliary Modules



UDACT-300A Digital Alarm Communicator Module

The UDACT-300A Digital Communicator allows the system to transmit addressable point information to a central station. The UDACT-300A occupies one module slot.



PR-300 Polarity Reversal/City Tie Module

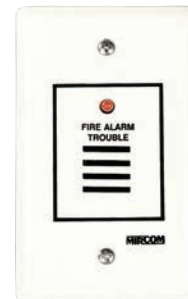
The PR-300 provides outputs for city box and polarity reversal applications. As a city tie module, the PR300 provides an interface between the control panel indicating circuits and a master box. It provides off-premises signal transmission for systems that must comply with NFPA requirements for Auxiliary Protective Systems. As a polarity reversal module, the PR-300 provides an interface between the control panel and a reverse polarity receiver.

Accessories



UIMA4 – Interface for Configuring MGC Fire Panels

The UIMA4 is an interface for configuring MMX-2000, MR-401, MR-3500, MR-3318, MMX-4000 and UDACT-300. The UIMA4's ribbon cable can be disconnected and replaced – the replacement part number is RPL-WC-25022 (it comes with 3 replacement cables). The UIMA4 interface has 3 connectors: 9 pin male serial connector, USB B female connector, and 10 pin female connector.



RTI-1 – Trouble Remote Indicator

Secutron's Remote Trouble Indicator provides remote annunciation of fire alarm troubles. The RTI-1 mounts onto a standard single gang electrical box. The RTI-1 can be used with any of Secutron's fire alarm control panels.



MP-300 – End of Line Plates

Secutron's MP-300 is a 3.9K End Of Line resistor for use with Secutron conventional panels and detection circuits.

Current Consumption

Model	Description	Standby (Amps)	Alarm (Amps)
Secutron MMX-4000 Series Network Lobby Control and Floor Panels - Integrated Fire and Audio Systems			
MMX-4017-12N	Compact Main Network Control Unit (12 Amp)	0.310	0.733
Displays			
DSPL-420DS	4 x 20 Main LCD Display for MMX-4017-12N	0.024	0.025
DSPL-420-16TZDS	4 x 20 Main LCD Display for MMX-4017-12N w/16 LEDs	0.010	0.046
DSPL-2440DS	Graphical Main Display for MMX-4017-12N	0.029	0.035
Adder Loop Controller Modules			
ALCN-4792MISO	Isolated Quad Loop Controller Module (for Secutron CLIP and Select Series Devices)	0.130	0.145
ALCN-792D	Daughter board for ALC-4792MISO Isolated Quad Loop Controller Module	0.130	0.145
ALCN-960MISO	Isolated Quad Loop Controller (for MIX-4000 Devices)	0.130	0.145
ALCN-960D	Daughter Board for ALCN-960MISO	0.130	0.145
Adder Hardwire Modules			
DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating	0.080	1 zone active: 0.125 2 zones active: 0.170 4 zones active: 0.275 6 zones active: 0.370 8 zones active: 0.465
SGM-1004S	Four Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)	0.031	0.096
RM-1008A	Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)	0.025	0.150
Adder Auxiliary Modules			
UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module	0.045	0.120
PR-300	Polarity Reversal and City Tie Module	0.035	0.300
Programmable Modules			
IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs	0.010	0.015
IPS-4848DS	Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs	0.010	0.022
FDX-008W	Fan Damper Control Module c/w 8 programmable switches	0.015	0.035
FDX-008WKI	Fan Damper Control Module	0.015	0.035
Remote Annunciators			
RAXN-4000LCD	Remote LCD Annunciator	0.139	0.164
RAXN-4000LCDG	Remote Graphic LCD Annunciator	0.117	0.150
RAM-1032TZDS	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs	0.050	32 zones active: 0.300
RAM-1032TZDS-CC	Conformal coated 32 zone remote LED annunciator with trouble LEDs	0.050	32 zones active: 0.300
RAX-1048TZDS	Adder Annunciator Chassis c/w 48 Bi-Colored LEDs	0.022	48 zones active: 0.262
RAX-1048TZDS-CC	Conformal coated Adder Annunciator Chassis c/w 48 Bi-Colored LEDs	0.022	48 zones active: 0.262
MGD-32	Graphic Annunciator	0.035	1.6
AGD-048	Graphic Annunciator Adder Driver Board	0.035	# of LEDs x 4mA
Network Controller Modules			
ANC-4000	Audio Network Controller Module	0.255	0.265
TNC-5000	Telephone Network Controller Module	0.195	0.215
FNC-2000	Fire Network Controller Module	0.190	0.190
FOM-CONN-MM	Fibre Optic Module Connector Multi-mode (pack of 2). Must use a FOM-2000-UM	0.042	0.042
FOM-CONN-SM	Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM	0.016	0.016
Accessories			
RTI-1	Trouble Remote Indicator	0.035	0.035

Ordering Information

Model	Description
Secutron MMX-4000 Series Network Lobby Control and Floor Panels - Integrated Fire and Audio Systems	
MMX-4017-12N	Compact Main Network Control Unit (12 Amp)
Displays	
DSPL-420DS	4 x 20 Main LCD Display for MMX-4017-12N
DSPL-420-16TZDS	4 x 20 Main LCD Display for MMX-4017-12N w/16 LEDs
DSPL-2440DS	Graphical Main Display for MMX-4017-12N
Enclosures	
BBX-1072ARDS	Black Backbox enclosure for MMX-4017-12N - removable Red door..
MMX-BB-1001DR	Remote Annunciator Enclosure Houses one module with Red door.
MMX-BB-1002DR	Remote Annunciator Enclosure Houses two module with Red door.
MMX-BB-1003DR	Remote Annunciator Enclosure Houses three module with Red door.
MMX-BB-1001WP	Weather Protected Enclosure Enclosure Houses one module with Red door.
MMX-BB-1002WP	Weather Protected Enclosure Enclosure Houses two module with Red door.
Adder Loop Controller Modules	
ALCN-4792MISO	Isolated Quad Loop Controller Module (for Secutron CLIP and Select Series Devices)
ALCN-792D	Daughter board for ALC-4792MISO Isolated Quad Loop Controller Module
ALCN-960MISO	Isolated Quad Loop Controller (for MIX-4000 Devices)
ALCN-960D	Daughter Board for ALCN-960MISO
Adder Hardwire Modules	
DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating
SGM-1004S	Four Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)
RM-1008A	Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)
Adder Auxiliary Modules	
UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module
PR-300	Polarity Reversal and City Tie Module
Programmable Modules	
IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs
IPS-4848DS	Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs
FDX-008W	Fan Damper Control Module c/w 8 programmable switches
FDX-008WKI	Fan Damper Control Module
Power Supply Expansion	
INX-10A	Intelligent Booster Power Supply
Remote Annunciators	
RAXN-4000LCD	Remote LCD Annunciator
RAXN-4000LCDG	Remote Graphic LCD Annunciator
RAM-1032TZDS	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs
RAM-1032TZDS-CC	Conformal coated 32 zone remote LED annunciator with trouble LEDs
RAX-1048TZDS	Adder Annunciator Chassis c/w 48 Bi-Colored LEDs
RAX-1048TZDS-CC	Conformal coated Adder Annunciator Chassis c/w 48 Bi-Colored LEDs
MGD-32	Graphic Annunciator
AGD-048	Graphic Annunciator Adder Driver Board

Ordering Information cont'd

Model	Description
Graphic Annunciator Driver Modules	
OGN-FLSLIC-ONE	Single Fire Alarm Control Panel License (Price per connection) Requires: OGN-KEY (sold separately) Contact us for non-Secutron panel connections
OGN-FLSLIC-EXP	Fire Alarm Control Panel License for 2-9 Connections (Price per connection) Requires: OGN-KEY(sold separately) Contact us for non-Secutron panel connections
OGN-FLSLIC-STD	Fire Alarm Control Panel License for 10-99 Connections (Price per connection) Requires: OGN-KEY (sold separately) Contact us for non-Secutron panel connections
OGN-FLSLIC-ENT	Fire Alarm Control Panel License for 100+ Connections (Price per connection) Requires: OGN-KEY (sold separately) Contact us for non-Secutron panel connections
OGN-KEY	OGN License Key Stick
Fire Alarm Network BACnet Single User License	
MGC-LIC-BACNET	Unlocks BACnet port on one network node per license
Fire Alarm Network WEBSEVER Single User License	
MGC-LIC-WEBSEVER	Unlocks WEBSEVER port on one network node per license
Network Controller Modules	
FNC-2000	Fire Network Controller Module
FOM-2000-UM	Allows for single-mode or multi-mode fibre optic communication on a MMX-MP network. Add FOM-CONN-SM and FOM-CONN-MM
FOM-CONN-MM	Fibre Optic Module Connector Multi-mode (pack of 2). Must use a FOM-2000-UM
FOM-CONN-SM	Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM
Accessories	
UIMA4	Interface for Configuring MGC Fire Panels
MGC-CONFIG-KIT4	Fire Panel Configuration KIT with UIMA4
RTI-1	Trouble Remote Indicator
MP-300	End of Line Plates