

## **MMX-MNS-2000**

**INTELLIGENT FIRE ALARM & EMERGENCY** COMMUNICATIONS NETWORK



Description

Secutron's MMX Series Mass Notification System (MNS) is designed to provide real-time information to all building occupants or personnel in the immediate vicinity of a building during emergency situations. The system allows for real-time information regarding the type of emergency as well as safely instructing people on where to go and what to do.

Secutron's MMX-MNS system offers building owners and facility managers with a simple solution to their safety requirements. The system is designed to automatically change as emergency situations In addition it is able to manage all mass notification change. functions, allow responding authorities the ability to override fire alarm notification, issue external voice announcements, and simultaneously distribute different emergency communications on any geographic scale required.

Designed with the industry's most advanced hardware and software, Secutron's MMX-MNS system provides reliable and clear audible and visual notification, live voice instruction and Internet based text messaging. In addition it can be easily integrated to other public safety systems for emergency communications to wide area networks.

Secutron's MMX-MNS is UL 2572 listed for Mass Notification and complies with NFPA 72-2010 and UFC/DOD standards for emergency communications systems. Based on the MMX Series Intelligent Network Fire Alarm Control Unit and Audio System the MMX-MNS provides a rich feature set that delivers an extensive number of configurable options that allow for flexibility in any environment while reducing the installation and maintenance burden with an easy to install, modular setup.

## Features

#### **Mass Notification**

- Storage and activation of pre-programmed intelligible voice messages
- · Supervision of all Mass Notification (MNS) equipment
- Auxiliary inputs for general paging, background music, or other ٠ non-emergency functions
- Tamper resistant enclosures with password-protected features for enhanced access control
- One-Way and Two-Way EVACS capability
- · Automatic response to MNS inputs
- · Local and remote controls and indicators
- · Synchronized evacuation zone signalling
- Voice message priority according to risk analysis and emergency response plan
- · Visible notification and strobes support
- Local Operating Console (LOC) that provides on-site monitoring/ control of voice and notification appliances
- · Large LCD displays
- · Fire Alarm Control Unit Interface (FACI)
- Building Management System Interface (BMSI) •
- · Autonomous Control Unit providing real time status of all LOC units
- UL 2572 Listed for Mass Notification

#### **Fire Alarm Control**

- Base system is equipped with one Intelligent Signaling Line Circuit (SLC). Expandable up to 17 SLCs.
- Each SLC is capable of supporting 159 Analog Sensors and 159 Addressable Modules which can be wired in Style 6 or 7 (Class A) or Style 4 (Class B)
- Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each
- Built-in Ethernet port
- · Remote diagnostics via a built-in web server

#### Audio Control

- · Multi-channel operation
- · Control and Audio multiplex over one digital link
- · Distributed audio
- 5 hard wire fire fighter telephone channels that can be expanded with intelligent fire phone modules
- · 25 or 70 volt system
- Multiple amplifier sizes
- Max. of 180 watts per Integrated Fire & Audio control unit
- · Supports up to two 360 watt audio expansion cabinets for a total of 900 watts of audio power per node

### **Network Features**

- Up to 63 nodes
- · Fully integrated digital network audio and control over a single pair of copper wire or fiber optic cable
- · Supports over 5,400 points per node
- Supports over 340,000 points on a single network
- · Peer-to-peer network communications
- Style 4 (Class B) or Style 6 or 7 (Class A) wiring configuration



### SECUTRON INC.

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NYC Fire Dept.

## MMX-MNS Mass Notification Control Modules



#### MMX-2000MNS Main Network Board

The MMX-2000MNS main network board includes one intelligent Signaling Line Circuit (SLC) and Four Style Z/Y (Class A/B) NAC circuits. The MMX-2000MNS has provisions to mount up to 9 internal adder modules and mounts in the MMX-BBX-FXMNSR enclosure.



#### **QMB-5000N Integrated Audio Network Chassis**

The QMB-5000N includes the audio and telephone control which consists of an audio card cage designed for mounting the ANC-5000 Audio Network Controller Module, TNC-5000 Telephone Network Controller Module and up to four QAA style audio amplifiers. The QMB-5000N connects to the MMX-2000MNS Network fire alarm main board and mounts in the MMX-BBX-FXMNSR enclosure.





#### **DSPL-420DS Main Display Module**

The DSPL-420DS Main Display Module provides the MMX-MNS 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-BBX-FXMNSR enclosure.



#### **DSPL-2440 Graphical Main Display Module**

The DSPL-2440 Graphical Main Display Module provides the MMX-MNS 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-2440 occupies one display position in the MMX-BBX-FXMNSR enclosure.



QMP-5101NV Network Master Paging Control Module The QMP-5101N Network Master Paging Control Module includes the paging microphone and common control indicators. The QMP-5101NV allows for all call paging or selective paging with the QAZT-5302DS Zoned Paging and Telephone Selector Modules. The QMP-5101NV is A vertical mount unit that mounts in the MMX-BBX-FXMNSR enclosure.



#### QMT-5302NV Network Master Firefighters' Telephone Control Module

The QMT-5302NV includes the Master Telephone Handset and common control indicators. The QMT-5302NV supports the QAZT-5302DS Paging and Telephone selector modules. The QMT-5302NV is a vertical mount unit that mounts in the MMX-BBX-FXMNSR enclosure.



The MMX-BBX-FXMNSR enclosure supports the MMX-2000MNS Network main board, DSPL-420DS or DSPL-2440 Main LCD display, QMB-5000N audio card cage, QMP-5101NV Master Paging Microphone and QMT-5302NV Master Telephone Handset. In addition the enclosure provides space for additional external modules and internal lobby control modules. The MMX-BBX-FXMNSR holds up to 40 AH batteries and is available with red doors.

MMX-BBX-FXMNSR Dimensions: 61.5"H x 20"W x 9"D



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## **Fire Network Controller Modules**



#### FNC-2000 Fire Network Controller Module

The FNC-2000 provides network capability to the MMX system. One Fire Network Controller Module is required per network node. In addition the FNC-2000 provides an interface for adding an optional FOM-2000-SP Fiber Optic Network Adder Module. The FNC-2000 mounts on the MMX-2000MNS main network board.



#### FOM-2000-SP Fiber Optic Network Adder Module

The FOM-2000-SP Fiber Optic Network Adder Module allows for the use of fiber optic cabling on the MMX system. It seamlessly connects to the interface on the FNC-2000 Fire Alarm Network Controller Module.

## Adder Loop Controller Modules



#### ALCN-792MISO Quad Loop Controller Module

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



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

## **Adder Hardwire 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.

## **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 Polarity Reversal/City Tie Module provides the system with a supervised City Tie (24 VDC/200 mA max.) and Polarity Reversal connection (24 VDC (open circuit), 8 mA max. (shorted)). The PR-300 occupies one module slot.



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## **Remote LCD Annunciators**



#### **RAXN-LCD Remote LCD Annunciator**

The RAXN-LCD 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 unit display. The RAXN-LCD occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.



#### **RAXN-LCDG** Remote Graphic LCD Annunciator

The RAXN-LCDG 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-LCDG occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.

## **Remote LED Annunciators**



#### 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 or BB-5000 Series enclosures.

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#### **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 control unit or either the RAXN-LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.

#### FDX-008W/KI Fan Damper Module

Programmable Modules

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-LCD and occupies one display position in the BBX-FXMNS, BB-1000 or BB-5000 Series enclosures.



IPS-2424DS/IPS-4848DS Programmable Input Switches Module The IPS-2424DS/IPS-4848 provides 24/48 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424DS/IPS-4848DS connects to main control unit or the RAXN-LCD when mounted remotely. The IPS-2424DS/IPS-4848DS occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.



## MMX-MNS Audio and Telephone Network Controller Modules



#### ANC-5000 Audio Network Controller Module

The ANC-5000 provides audio microphone control on the network system. The ANC-5000 mounts on a plate in the QMB-5000N.



#### **TNC-5000 Telephone Network Controller Module**

The TNC-5000 provides five hardwired telephone circuits for the local floor panel with the first circuit configurable for the master telephone handset. The TNC-5000 mounts in the QMB-5000N.

## Paging Control Modules for Remote Applications



#### QMP-5101N Network Master Paging Control Module

The QMP-5101N Network Master Paging Control Module includes the paging microphone and common control indicators. The QMP-5101N allows for all call paging or selective paging with the QAZT-5302DS Zoned Paging and Telephone Selector Modules. The QMP-5101N occupies one module space in the BB-5000 Series enclosures.



#### **QAZT-5302DS Zoned Paging and Telephone Selector Module**

The QAZT-5302DS Zoned Paging and Telephone Selector Module includes 24 zone selector switches and LEDs. The QAZT-5302DS is used with the QMP-5101N Network Master Paging Control module or QMT-5302N Network Master Firefighters' Telephone module. Slide-in labels are provided to label the selector zones. The QAZT-5302DS occupies one module space in the MMX-BB-1000 or BB-5000 Series enclosures.

Firefighter Telephone Control Modules



#### QMT-5302N Network Master Firefighters' Telephone Control Module

The QMT-5302N includes the Master Telephone Handset and common control indicators. The QMT-5302N supports the QAZT-5302DS Paging and Telephone selector modules. The QMT-5302N occupies one module space in the BB-5000 Series enclosures.

		Paging-Zone #5		Paging Zone		Paging Zone #17		Paging Zone	Paging Zone 453	Paging Zone #11
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		Paging Zone #P		Paging Zone #15		Paging Zone 423		Paging Zone	Paping Zone (33)	Paging Zone
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#### QAZT-5348DS Addressable Telephone and Paging Selector Panel

The QAZT-5348DS Addressable Telephone and Paging Selector Panel mounts into various enclosures, refer to the associated fire alarm panel manual for detailed instruction. Compatible with FleX-Net (FX-2000N and FX-4000N), FX-2000, QX-5000 and MMXTM



## **Audio Amplifiers**



#### QAA-5415-70 and QAA-5415-25 Quad 15 Watt Amplifiers

The QAA-5415-70 and QAA-5415-25 consist of four 15 watt supervised paging/speaker circuits which can be wired in Class 'B' (Style 'Y') only. The QAA-5415-70 is a 70 Volt amplifier and the QAA-5415-25 is a 25 Volt amplifier. Both models mount in either the QMB-5000N or QMB-5000B card cage and occupy one amplifier slot.

#### QAA-5230S-70/25 Dual 30 Watt Amplifier

The QAA-5230S-70/25 consists of two 25 or 70 Volt 30 watt amplifiers. Each amplifier has two 15 watt supervised speaker outputs which are used for 'A' 'B' speakers per floor and are wired in Class 'B' (Style 'Y') only. The QAA-5230S-70/25 mounts in either the QMB-5000N or QMB-5000B card cage and occupies one amplifier slot.

#### QAA-5230-70/25 Dual 30 Watt Amplifier

The QAA-5230-70/25 consists of two 25 or 70 Volt 30 watt supervised paging/speaker circuits which can be wired in Class 'A' (Style 'Z') or Class 'B' (Style 'Y'). The QAA-5230-70/25 mounts in either the QMB-5000N or QMB-5000B card cage and occupies one amplifier slot.

#### QAA-5160-70/25 60 Watt Amplifier

The QAA-5160-70/25 consists of one 25 or 70 Volt 60 watt supervised paging/speaker circuit which can be wired in Class 'A' (Style 'Z') or Class 'B' (Style 'Y'). The QAA-5160-70/25 mounts in either the QMB-5000N or QMB-5000B card cage and occupies one amplifier slot.



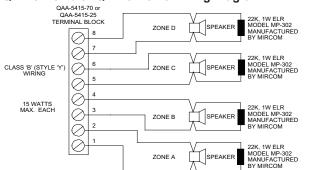
#### QAA-4CLA Class 'A' (Style 'Z') Converter Module

The QAA-4CLA converts each of the four Class 'B' (Style 'Y') outputs on a QAA-5415-70 or QAA-5415-25 Amplifiers to Class 'A' (Style 'Z'). The module attaches to the bottom of the amplifier. One QAA-4CLA is required for each amplifier.

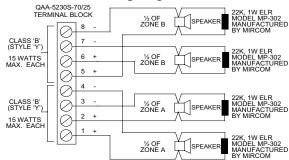
#### QAA-4CLAS Class 'A' (Style 'Z') Converter Module

The QAA-4CLAS converts each of the four Class 'B' (Style 'Y') outputs on a QAA-5230S-70/25 or QAA-5230S-525-70/25 Amplifier to Class 'A' (Style 'Z'). The module attaches to the bottom of the amplifier. One QAA-4CLAS is required for each amplifier.

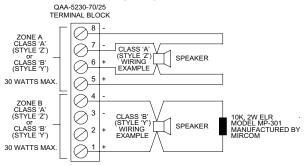
#### QAA-5415-70 or QAA-5415-25 Wiring Diagram



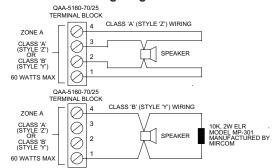
### QAA-5230S-70/25 Wiring Diagram



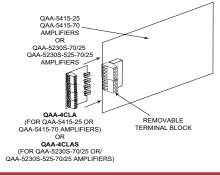
#### QAA-5230-70/25 Wiring Diagram



### QAA-5160-70/25 Wiring Diagram



#### QAA-4CLA and QAA-4CLAS Connection Diagram





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## **Network System Expansion Enclosures**



#### MMX-2009-12NDS Large Network Main Control Unit

The MMX-2009-12NDS Large Network Main Control Unit consists of a base fire alarm unit with one isolated intelligent Signaling Line Circuit (SLC) Style 4, 6 or 7, Four Style Z/Y (Class A/B) NAC circuits, a 4 line by 20 character LCD display and a 12 Amp power supply. The MMX-2009-12NDS has space to mount the FNC-2000 Fire Network Controller Module, ANC-5000 Audio Network Controller Module, TNC-5000 Telephone Network Controller Module and provision to mount up to 4 adder modules. The MMX-2009-12NDS mounts in a BB-5000 Series enclosure and supports Audio Lobby Control modules, Fire Fighter's Lobby Control modules and Internal Annunciator / Programmable modules.



#### MMX-QBB-5001R Audio Backbox

The MMX-QBB-5001R holds one QMB-5000B Audio Motherboard and Card Cage, one QPS-5000N Audio Power Supply, one QBC-5000N Audio Battery Charger and up to 40 Ah batteries.



#### QMB-5000B Audio Motherboard and Card Cage

The QMB-5000B supports 7 QAA style audio amplifiers. The QMB-5000B requires one QPS-5000N Audio Power Supply and one QBC-5000N Audio Battery Charger and mounts in the MMX-QBB-5001R Audio Backbox.



#### QPS-5000N Audio Power Supply The QPS-5000N supports up to 360 watts and mounts in the

The QPS-5000N supports up to 360 watts and mounts in the MMX-QBB-5001R Audio backbox.



#### **QBC-5000N Audio Battery Charger**

The QBC-5000N will charge up to 65 Ah batteries and mounts in MMX-QBB-5001R Audio Backbox.

**Note:** The MMX-QBB-5001R Audio Backbox will hold up to 40 Ah batteries. Larger batteries will require a BC-160 Battery Cabinet.



#### **ECX-0012 Expander Chassis**

The ECX-0012 Expander Chassis for the MMX-2009-12NDS supports up to 12 adder modules and has space for 2 internal annunciator modules. The ECX-0012 mounts in the BB-5000 Series enclosures.



#### BB-5008/BB-5014 Lobby Enclosures

The BB-5008 and BB-5014 lobby enclosures support the MMX-2009-12NDS Network Lobby Control chassis and provide space for internal lobby control modules. The cabinets hold up to 24 AH batteries. The door and chassis hardware are ordered separately.

BB-5008 Dimensions: 36"H x 30"W x 7"D BB-5014 Dimensions: 60"H x 30"W x 7"D



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## **Graphics Software**

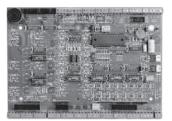


#### **Open Graphic Navigator (OpenGN)**

The Open Graphic Navigator (OpenGN) software is an advanced fire alarm management and warning system that provides building ready monitoring, control and software management solutions that allows a user to monitor remote sites from multiple operator workstations located anywhere in the world.

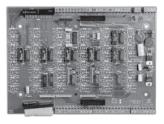
The OpenGN software is available in two versions: Network (OPENGN-ENT) and Non-Network (OPENGN-MINI) for use with the Secutron MMX Series Intelligent Fire Alarm Control Units.

## **Graphic Annunciator Driver Modules**



#### MGD-32 Master Graphic Driver Module

The MGD-32 Master Graphic Driver Module provides common control inputs for the common control switches such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test, Acknowledge and General Alarm. The MGD-32 can also drive up to 32 supervised outputs. These output points are capable of driving LEDs or incandescent lamps. The MGD-32 mounts in a graphic annunciator wallbox or in the BB-5000 Series enclosures. An external power supply is required for incandescent lamps and lamp test.



## Power Supply Expansion

## INX-10AC Internal Booster Power Supply Module

The INX-10AC is an Intelligent Booster Power Supply that extends the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. The INX-10AC has 10 amps of power and mounts inside the BB-5014 enclosure.

#### AGD-048 Adder Graphic Driver Module

The AGD-048 Adder Graphic Driver Module can be used with the MGD-32 to support an additional 48 supervised outputs. The AGD-048 mounts in a graphic annunciator wallbox or in the BB-5000 Series enclosures.

## **Mounting Brackets**



#### M500-BK9 Module Mounting Bracket

The M500-BK9 Module Mounting Bracket mounts inside the BB-5000 Series enclosures and provides space to mount up to nine M500 style intelligent modules.



#### M500-BK2 Module Mounting Bracket

The M500-BK2 Module Mounting Bracket mounts inside the MMX-BBX-FXMNSR enclosure and provides space to mount up to two M500 style intelligent modules.



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## Local Operating Console Components





#### **RAXN-LCD Remote LCD Annunciator**

The RAXN-LCD Remote LCD Annunciator is equipped with a 4 line x 20 character back-lit alphanumeric LCD display that provides the exact functions as the MMX-MNS main display. The RAXN-LCD occupies one display position in the MMX-LOCR enclosure.

#### MMX-LOCR Lobby Operating Console

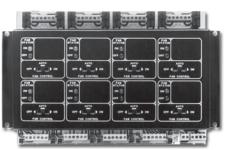
The MMX-LOCR Local Operating Console provides on-site monitoring/ control of voice and notification appliances for Mass Notification applications. The MMX-LOCR enclosure supports one RAXN-LCD remote LCD annunciator, a QMP-5101N master paging microphone and one FDS-008 selector control panel (with an IM-10(A) monitor module mounted to the back) in a small compact enclosure. (Ordered separately)

Add suffix "R" for red door. Dimensions: 25"H x 15"W x 5.5"D



#### QMP-5101N Network Master Paging Control Module

The QMP-5101N Network Master Paging Control Module includes the paging microphone and common control indicators. The QMP-5101N interconnects between other microphone modules at the MMX-MNS and within the associated MMX-LOC units. The QMP-5101N occupies one module space in the MMX-LOCR enclosure.



#### **FDS-008 Selector Control Panel**

The FDS-008 Selector Control Panel provides eight audio area selection switches. The FDS-008 is power connected from the RAXN-LCD and connected within the MMX-LOC to the IM-10(A) Ten Input Monitor Module. The FDS-008 occupies one display position in the MMX-LOCR enclosure.



#### IM-10(A) Ten Input Monitor Module

The IM-10(A) Ten Input Monitor module provides eight relay contact connections from the FDS-008 Selector Control Panel. In addition it provides an SLC connection the MMX-MNS, if required. The IM-10(A) mounts behind the FDS-008 moudle in the MMX-LOCR enclosure.



## **Secutron Mass Notification System**

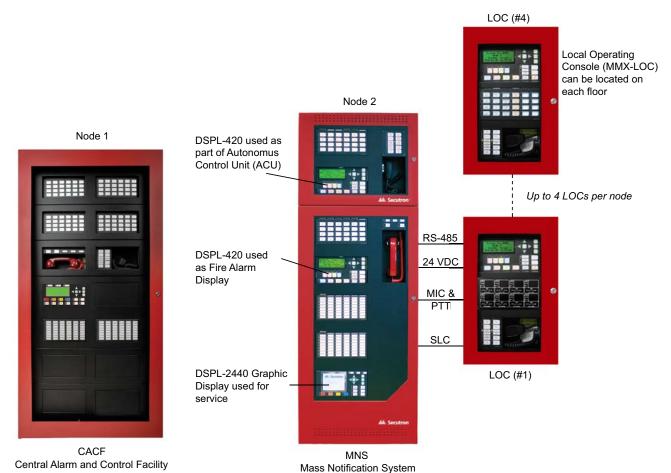
Secutron's MMX Intelligent Fire Alarm & Emergency Communications Network is comprised of an Autonomous Control Unit (ACU) and the MMX-LOC Local Operating Console that complies with the UL 2572 requirements for Mass Notification Systems (MNS).

The MMX-LOC Local Operating Console along with the MMX Network Fire Alarm provides compliance with the UL 2572 requirements for Mass Notification Systems (MNS).

The Autonomous Control Unit (ACU) is comprised of an MMX-BBX-FXMNS enclosure that includes a RAXN-LCD Annunciator and a Master Microphone to provide emergency audio. In addition the ACU is equipped with another RAXN-LCD which annunciates the fire alarm system events, a Master Telephone for emergency use and a

DSPL-420DS or DSPL-2440 LCD display which annunciates all system messages (Fire Alarm and Mass Notification). A maximum of four MMX-LOC units can be connected to a MMX-MNS node.

## Sample In-Building Mass Notification System Configuration





Model Number	Description	Standby (Amps)	Alarm (Amps)
Fire Alarm Components			
MMX-2000MNS	Main Network Board	0.310	0.733
ALCN-792MISO/D	Dual Analog Loops	0.130	0.145
FNC-2000	Fire Network Controller Module	0.190	0.190
FOM-2000-SP	Fiber Optics Module	0.015	0.015
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
DM-1008A	8 Initiating Circuit Module	0.080	1 zone active: 0.125 2 zone active: 0.170 4 zone active: 0.275 6 zone active: 0.370 8 zone active: 0.465
SGM-1004S	4 Notification Appliance Circuit Module	0.031	0.096
RM-1008A	8 Relay Circuit Module	0.025	0.150
FDX-008W/KI	Fan Damper Control Module	0.015	0.035
DSPL-420DS	Narrow Display	0.024	0.025
DSPL-2440	Graphic Display	0.029	0.035
UDACT-300A	Dialer Module	0.045	0.120
PR-300	City Tie Module	0.035	0.300
FDS-008	Selection Control Panel for MNS	0.024	112mA
RAX-1048TZDS	Adder Annunciator Chassis	0.022	1 zone active: 0.026 2 zone active: 0.030 3 zone active: 0.035 4 zone active: 0.039 48 zone active: 0.262
RAM-1032TZDS	Adder Annunciator Chassis	0.050	32 zone active: 0.300
AGD-048	Adder Graphic Driver Board	0.035	# of LEDs x 4mA
IPS-2424	Programmable Input Switches Module	0.010	0.015
IPS-4848DS	Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs	0.010	0.022
Audio Components			
ANC-5000	Audio Network Controller Module	0.255	0.265
TNC-5000	Telephone Network Controller Module	0.195	0.215
QAA-5160-70/25	1 Zone 60W Amplifier	0.055	0.350
QAA-5230-70/25	2 Zone 30W Amplifier	0.055	0.350
QAA-5230S-70/25	2 Zone 30W Amplifier (split)	0.055	0.350
QAA-5415-70	4 Zone 15W Amplifier, 70V	0.055	0.350
QAA-5415-25	4 Zone 15W Amplifier, 25V	0.055	0.350
QMP-5101N	Master Paging Module	0.004	0.012
QMP-5101NV	Vertical Master Paging Module	0.004	0.012
QMT-5302N	Master Telephone Module	0.003	0.013
QMT-5302NV	Vertical Master Telephone Module	0.003	0.013
QAZT-5302DS	Paging/Telephone Zone Module	0.010	0.015

## **Electrical Specifications**

Fire Alarm Primary Input Power	120V 60Hz / 240V, 50Hz 4 Amps / 2 Amp (primary)
Power Supply Ratings	12 Amps. max. (secondary)
For NAC Circuits	24VDC unfiltered, 10 Amps. max.
Battery Type	24VDC, Gel-Cell/Sealed Lead-Acid
Battery Charging Capability	17-65 AH batteries
Audio Primary Input Power (QPS-5000N)	120 VAC, 60Hz / 240 VAC, 50Hz 12 Amps

## **Dimensions for Annunciator Module Enclosures**

Model	Dimensions
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
MMX-BB-1008DR	33"H x 22.5"W x 1.85"D
MMX-BB-1012DR	45"H x 22.5"W x 1.85"D



## **Ordering Information**

Mixes     Mixes     Mixes       MMX-2000MINS     MMX-EX000MINS     MMX-EX000MINS       MMX-2000MINS     MMX-EX000MINS     Integrated Audio Network Control Chassis. Mounts in the MMX-BBX-FXNNSR       PS-2340     MMX-FXNNSN Network Fire Alarm and Audio Power Supply (120240V)       MMX-EX000MINS     Black backbox enclosure with red doors for MMX-2000MNS.       DSR-4240     Graphical Maxe Display for MMX-2000MNS       DSR-4240     Graphical Maxe Display for MMX-2000MNS       DSR-4240     Graphical Maxe Display for MMX-2000MNS       MMX-EX0XMINS     Measter Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       Paging filephone-Module     For MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMT-5302DN     Master Network Paging Control Module     For MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMT-5302DN     Master Network Paging Control Module     For MXX-FXMNS.       QMT-5302DN     Master Network Paging Control Module     For MXX-FXMNS.       QMX-FXMNS     Vertical Mount. For use in MMX-BBX-FXMNS.       QMX-FXMNS     Vertical Mount. For use in MMX-BBX-FXMNS.       QMX-FXMNS     Vertical Mount. For use in MMX-BBX-FXMNS.       QMT-5302DN     Master Network Talephone Co	Model	Description					
endosure.     endosure.       QMB-50001     Integrated Audio Network Control Chassis. Mounts in the MMX-BBX-FXMNS enclosure       PS-2040     MMX-FXMNS Network Fire Alarm and Audio Power Supply (120/240V)       MMX-BXFXMNSR     Black backbox enclosure with red doors for MMX-2000MNS       DSPL-2400     4 x 20 Main LCD Dieglay for MMX-2000MNS       DSPL-2400     Graphical Man Dieglay for MMX-2000MNS       MMX-LOCR     Local Operating Console enclosure for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       Paring Tolephone Wedres     Master Network Reging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMF-5101N     Master Network Telephone Control Module       QMT-5302N     Master Network Telephone Control Module       QMT-5302N     Master Network Telephone Control Module       QMT-5302N     Master Network Telephone Salector Panel       QAZT-534BDS     Addressable Telephone Module       PK0x: 2000     Fire Network Controller M	Mass Notification C	ontrol Units					
PS-2040     MMX-FXMNS Network Fire Alarm and Audio Power Supply (120/240V)       MMX-EXMNS Network Fire Alarm and Audio Power Supply (120/240V)       MMX-BEX-FXMNSR     Black backbox enclosure with red doors for MMX-2000MNS       DSR1-2440     Graphical Man Display for MMX-2000MNS       DSR1-2400     4 x 20 Main LCD Display for MMX-2000MNS       MMX-LOCR     Local Operating Console enclosure for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       Pating Tolephone Modules     MMX-FXMNS Netrical Mount. For use in MMX-BBX-FXMNS.       QMF-5101N     Master Network Telephone Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMT-5302D     Master Network Telephone Control Module     QMX-FXMNS       QMT-5302DS     Paging and Telephone Selector Panel     QMX-FXMNC Telephone Control Module       QMX-5302DS     Paging and Telephone Selector Panel     QMX-FXMNC Controller Module       RAVE-000     Filer Network Controller Module     QMX-FXMNC Controller Module       ROM-CONN-MM     Fiber Oplic Addre Module     QMX-FXMNC Controller Module       ROM-CONN-MM     Fiber Oplic Connector Multi-mode (pack of 2). Must use a FOM-2000-UM     Thore Oplic Connector Multi-mode (pack of 2). Must use a FOM-2000-UM       ROM-CONN-SM     Fiber Oplic Connector Module     AckON-722D	MMX-2000MNS	MMX-FXMNS Main Network Board with 12 Amp power supply and 120/240V transformer. Mounts in the MMX-BBX-FXMNS enclosure.					
MXXBBX-FXMNR8     Black backbox enclosure with red doors for MMX-2000MNS       DSPL-420DS     4 x 20 Main LCD Display for MMX-2000MNS       DSPL-24400     Graphical Main Display for MMX-2000MNS       DSPL-24240     Caraphical Main Display for MMX-2000MNS       MMX-LOCR     Local Operating Console enclosure for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       Paging/Tollephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMF-5101NV     Master Network Talephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMF-5101NV     Master Network Talephone Control Module       QAT-53302N     Master Network Talephone Control Module       QAT-5340S     Addressable Telephone And Paging Selector Panel       QAT-5340S     Addressable Telephone And Paging Selector Panel       Network Controller     Module       PNC-2000     Fire Natwork Controller Module       PCM-2000-SP     File Notwork Addre Module       ACK-5000     Audio Network Controller Module       PCM-CONN-M     Fibre Optic Network Controller Module       ACK-7920ND     Telephone Network Controller Module       AcK-7920ND     Network Controller Module       AcK-7920ND     Network Controller Module       <	QMB-5000N	Integrated Audio Network Control Chassis. Mounts in the MMX-BBX-FXMNS enclosure					
DSPL-420DS     4 x 20 Main LCD Display for MMX-2000MNS       DSPL-24240     Graphical Main Display for MMX-2000MNS       MMX-LOCR     Local Operating Console enclosure for MMX-FXMNS       Paging/Tellphone     Media       CMP-5101NV     Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       CMF-5301NV     Master Network Telpphone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       CMF-5302NV     Master Network Telpphone Control Module       CMF-5302NV     Master Network Telpphone Control Module       CAZT-5340S     Addressable Telephone And Paging Selector Panel       CAZT-5340S     Addressable Telephone And Paging Selector Panel       Network Controller     Module       CMC-2000     Fire Network Controller Module       FNC-2000     Fire Network Controller Module       CMC-2000     Fire Optic Network Addre Module       ACK-5000     Audio Network Controller Module       CMC-2000     Fire Optic Network Controller Module       ACK-7920ND     Telephone Network Controller Module       ACK-7920ND     Daughter board for ALCN-792M Quad Loop Controller Module       ACK-7920ND     Network Class B (Syle ZY) Notification Appliance Crout Module (Rated at 1.7 Amps per c	PS-2040	MMX-FXMNS Network Fire Alarm and Audio Power Supply (120/240V)					
DSPL-2440     Graphical Main Display for MIX-2000MNS       MMX-LOCR     Local Operating Console enclosure for MIX-FXMNS       Paging/Tclephone Modules     Modules       QMP-51011W     Master Network Paging Control Module for MIX-FXMNS, Vertical Mount. For use in MIX-BBX-FXMNS.       QMP-51011W     Master Network Paging Control Module       QMF-5302DX     Master Network Telephone Module for MIX-FXMNS, Vertical Mount. For use in MIX-BBX-FXMNS.       QMF-5302DX     Master Network Telephone Control Module       QAT-5332DX     Addressable Telephone And Paging Selector Panel       Network Controller Module     Module       FOM-2000-SP     Filer Optic Network Addre Module       FOM-CONN-MM     Filer Optic Connector Multi-mode (pack of 2). Must use a FOM-2000-UM       FOM-CONN-MM     Filer Optic Module Controller Module       Adder Loop Controller Module     Module       Adder Loop Controller Module     Master Network Controller Module       Adder Loop Controller Module     Master Network Controller Module       Adder Lon-792D     Daughter bear	MMX-BBX-FXMNSR	Black backbox enclosure with red doors for MMX-2000MNS.					
MIX-LOCR     Local Operating Console endosure for MMX-FXMNS       Paging/Telephone     Modules       QMIP-5101NV     Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMIF-5302NV     Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMIF-5302N     Master Network Telephone Control Module     Module       QMIF-5302N     Master Network Telephone Control Module     Module       QAZT-5348DS     Addressable Telephone And Paging Selector Panel     Quart-5302N       Network Controller Module     File     Control Module       FNC-2000     File Propic Network Adder Module     File       FOM-200N-SM     Filter Optic Network Adder Module     Addressable Telephone And Paging Selector Panel       CM-200N     File Propic Network Adder Module     Addressable Telephone And Paging Selector Panel       Network Controller Module     For Optic Network Controller Module     Addressable       FOM-200N-SM     Filer Optic Network Controller Module     Addressable Telephone Network Controller Module       COMON-MM     Filter Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM     Addressable Telephone Network Controller Module       Adder Loop Controller Modules     Addressa (St	DSPL-420DS	4 x 20 Main LCD Display for MMX-2000MNS					
Paging/Tolephone Modules       CMM-5101NV     Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       CMT-5302NV     Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       CMT-5302NV     Master Network Telephone Control Module       CMT-5302DS     Paging and Telephone Selector Panel       CAZT-5348DS     Addresabale Telephone And Paging Selector Panel       Natvork Controller Module     File Network Controller Module       RVC-5000     File Network Controller Module       RVC-6000     Audio Network Controller Module       RVC-6000     Audio Network Controller Module       FOM-CONN-SM     Fibre Optic 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       RCK-792DMSO     Network Controller Module       Adder Loop Controller Module     Adder Loop Controller Module       Matter Network Controller Mo	DSPL-2440	Graphical Main Display for MMX-2000MNS					
QMP-5101NV     Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMP-5302NV     Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMP-5101N     Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMF-5302NV     Master Network Telephone Control Module       QAZT-5302DS     Paging and Telephone Selector Panel       QAZT-5302DS     Addressable Telephone And Paging Selector Panel       Network Controller Module     Modules       FON-2000     Fire Network Controller Module       FON-2000.SP     Fiber Optic Network Addre Module       FOM-2000.SP     Fiber Optic Network Controller Module       FOM-CONN-MM     Fibre Optic Module Controller Module       FOM-CONN-MM     Fibre Optic Module Controller Module       Actor 1200 Module Controller Module     Adder Loop Controller Module       Actor 1200 SP     Daughter board for ALCN-792M Quad Loop Controller Module       Actor 1200 SP     Fibre Optic Network Controller Module       Actor 1200 SP     Four Class AB (Style 2V) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)       RAtter Lardwiter Module     Four Class AB (Style 2V) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit) <td>MMX-LOCR</td> <td>Local Operating Console enclosure for MMX-FXMNS</td>	MMX-LOCR	Local Operating Console enclosure for MMX-FXMNS					
QMT-5302NV     Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.       QMT-5302N     Master Network Telephone Control Module       QMT-5302N     Master Network Telephone Selector Panel       QAZT-532DS     Paging and Telephone Selector Panel       QAZT-5348DS     Addressable Telephone And Paging Selector Panel       Network Controller Modules     File Network Controller Module       FNC-2000     Fire Network Controller Module       FOM-2000-SP     Fiber Optic Network Addre Module       FOM-2000-SP     Fiber Optic Network Addre Module       FOM-CONN-MM     Fibre Optic Network Addre Module       FOM-CONN-SM     Fibre Optic Connector Single 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       FOM-CONN-SM     Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM       Adder Loop Controller Module     Addres Loop Controller Module       ALCN-792D     Daughter board for ALCN-792M Quad Loop Controller Module       Adder Loup Controller Module     SGM-10048       Four Class AB (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)       RM-1008A     Eight Relay Circuit Module c/w eight form C relays (Rated	Paging/Telephone	<i>l</i> odules					
QMP-5101N     Master Network Paging Control Module       QMF-5302N     Master Network Telephone Control Module       QAZT-5302DS     Paging and Telephone Solector Panel       QAZT-534DS     Addressable Telephone And Paging Selector Panel       Network Controller Modules     Fine Network Controller Module       FNC-2000     Fire Network Controller Module       FOM-2000-SP     Fiber Optic Network Adder Module       FOM-CONN-MM     Fibre Optic 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       TNC-5000     Telephone Network Controller Module       Adder Loog Controller Modules     Adder Loog Controller Module       ALCN-792MISO     Network Quad Loop Controller Module       Adder Hardwire Motules     Daughter board for ALCN-792M Quad Loop Controller Module       Adder Hardwire Motules     Four Class A/B (Style P) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)       DM-1008A     Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)       Adder Auxiliary Motules     Dudati Aam Communicator Transmitter/Dialer Module       DACT-3030     Polgital Aam Communicator Transmitter/Dialer Module       RAXN-LCD <td>QMP-5101NV</td> <td>Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.</td>	QMP-5101NV	Master Network Paging Control Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.					
QMT-5302N   Master Network Telephone Control Module     QAZT-5302DS   Paging and Telephone And Paging Selector Panel     QAZT-5302DS   Addressable Telephone And Paging Selector Panel     QAZT-5304DS   Addressable Telephone And Paging Selector Panel     QAZT-5304DS   Fire Network Controller Module     FIN-2000   Fire Network Controller Module     FOM-2000-SP   Fiber Optic Connector Multi-mode (pack of 2). Must use a FOM-2000-UM     FOM-CONN-MM   Fibre Optic Connector Single 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     FOM-CONN-SM   Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM     TNC-5000   Telephone Network Controller Module     Acten Hardwire Modules   Adder Loop Controller Module     ALCN-792D   Daughter board for ALCN-792M Quad Loop Controller Module     Adder Hardwire Modules   Eight Class B (Style B) or 4 Class A (Style D) Initiating 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 Austliary Modules   Mader Austliary Modules     UDACT-300A   Digital Alarm Communicator Transmitter/Dialer Module     RaxN+LCD   Remote Netwo	QMT-5302NV	Master Network Telephone Module for MMX-FXMNS, Vertical Mount. For use in MMX-BBX-FXMNS.					
QAZT-5302DS     Paging and Telephone Selector Panel       QAZT-534BDS     Addressable Telephone And Paging Selector Panel       Network Controller Modules       FIG-2000     Fire Network Controller Module       FOM-200-SP     Fiber Optic Network Adder Module       ANC-5000     Audio Network Controller Module       FOM-200-SP     Fiber Optic Module Connector Multi-mode (pack of 2). Must use a FOM-2000-UM       FOM-CONN-MM     Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM       FOM-CONN-SM     Fibre Optic Connector Multi-mode (pack of 2). Must use a FOM-2000-UM       TMC-5000     Telephone Network Controller Module       Adder Loop Controlt     Modules       Adder Loop Controller Module     Adder Hardwire Module       ALCN-792D     Daughter board for ALCN-792M Quad Loop Controller Module       Adder Hardwire Modules     Four Class AB (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)       RM-1008A     Eight Class B (Style ZY) 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 Austritary Modules     Meint Connunciator Transmitter/Dialer Module       Ramote Annunclator <t< td=""><td>QMP-5101N</td><td>Master Network Paging Control Module</td></t<>	QMP-5101N	Master Network Paging Control Module					
QAZT-5348DS   Addressable Telephone And Paging Selector Panel     Network Controller Modules     FNC-2000   Fire Network Controller Module     FOM-2000-SP   Fiber Optic Network Adder Module     ANC-5000   Audio Network Controller Module     FOM-2000-SP   Fiber Optic Network Adder Module     FOM-CONN-MM   Fibre Optic Connector Single 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     FOM-CONN-SM   Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM     Adder Loop Controller Module   Adder Loop Controller Module     Adder Loop Controller Module   Adder Loop Controller Module     Adder Hardwire Modules   Eight Class B (Style B) or 4 Class A (Style D) initiating Circuit Module     SGM-1004S   Fight Class AB (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)     RM-1008A   Eight Relay Circuit Module ciw eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)     Adder Auxiliary Modules   SGM-1004I     PR-300   Polarity Reversal and City Tie Module     PR-300   Polarity Reversal and City Tie Module     RAXN+LCDG   Remote Network LCD Annunciator Ciw 4 x 20 LCD display     RAXN+LCDG   Remote Net	QMT-5302N	Master Network Telephone Control Module					
Network Controller Modules       FIC-2000     Fire Network Controller Module       FOM-2000-SP     Fiber Optic Network Controller Module       ANC-5000     Audio Network Controller Module       ANC-5000     Audio Network Controller Module       FOM-CONN-MM     Fibre Optic 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       TNC-5000     Telephone Network Controller Module       Adder Loop Controller Modules     Adder Loop Controller Module       Acton-792D     Daughter board for ALCN-792M Quad Loop Controller Module       Adder Hardwire Modules     Modules       DM-1008A     Eight Class B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)       RM-1008A     Eight Relay Circuit Module Cw eight form C relays (Rated for 28 VDC @ 1 Amp max, per relay)       Adder Auxtiliary Modules     UDACT-300A       Digital Airm Communicator Transmitter/Dialer Module       PR-300     Polarity Reversal and City Tie Module       Remote Annunciator     K 20 LCD Annunciator c/w 4 x 20 LCD display       RAXNLCD     Remote Remote LCD Annunciator c/w 4 28 El-Colored LEDs       Programmable ILCD Annunciator c/w 4 28 El-Colored LEDs     P	QAZT-5302DS	Paging and Telephone Selector Panel					
FINC-2000     Fire Network Controller Module       FOM-2000-SP     Fiber Optic Network Adder Module       ANC-5000     Audio Network Controller Module       FOM-CONN-SM     Fibre Optic 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       TNC-5000     Telephone Network Controller Module       Adder Loop Controller Module     Adder Loop Controller Module       Adder Loop Controller Module     Adder Hardwire       ALCN-792DIISO     Network Quad Loop Controller Module       Adder Hardwire Modules     Adder Hardwire       DM-1008A     Eight Class B (Style B) or 4 Class A (Style D) initiating 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     Module       PR-300     Polarity Reversal and City Tie Module       Remote Annunciator     Module Constroller Module       RANN-LCD     Remote Retwork LCD Annunciator c/w 4 x 20 LCD display       RAXN-LCD     Remote Betwork LCD Annunciator c/w 42 Sel-Colored LEDs and 48 Trouble LEDs       RAX1-0432TZDS     Programmable LED Annunciator c/w 42 Sel-Colored LEDs and 48 Trouble LEDs	QAZT-5348DS	Addressable Telephone And Paging Selector Panel					
FOM:2000-SPFiber Optic Network Adder ModuleANC-5000Audio Network Controller ModuleFOM:2001-VMMFibre Optic Connector Multi-mode (pack of 2). Must use a FOM:2000-UMFOM:CONN-SMFibre Optic Connector Single Mode (pack of 2). Must use a FOM:2000-UMFOM:2000Telephone Network Controller ModuleAdder Loop Controller ModulesAdder Loop Controller ModuleALCN:792MISONetwork Quad Loop Controller ModuleAdder Hardwire ModulesBaighter board for ALCN:792M Quad Loop Controller ModuleAdder Hardwire ModulesEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit ModuleAdder Hardwire ModulesSGM:1004SFour Class A/B (Style ZY') Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM:1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary ModulesWDACT:300ADigital Alarm Communicator Transmitter/Dialer ModulePR:300Polarity Reversal and City Tie ModuleRAXNI-CDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXNI-CDRemote Rampic LCD Annunciator c/w 4 x 20 LCD displayRAXNI-CDRemote Graphic LCD Annunciator c/w 4 28 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDsProgrammable Input Switches Module c/w 48 Bi-Coloured LEDs and 48 bi-coloured LEDsPS-2424DSProgrammable Input Switches Module c/w 48 Bi-Coloured LEDsPDX-008WVFan Damper Control Module c/w 48 Bi-Coloured LEDs<	Network Controller	Modules					
ANC-5000   Audio Network Controller Module     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     TNC-5000   Telephone Network Controller Module     Adder Loop Controller   Modules     ALCN-792D   Daughter board for ALCN-792M Quad Loop Controller Module     Adder Hardwire Motules   Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)     RM-1008A   Eight Class 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   Remote Annunciator     RAXN-LCD   Remote Network LCD Annunciator c/w 4 x 20 LCD display   RAXN-LCDG     RAX-1048TZDS   Programmable LED Annunciator c/w 42 Bi-Colored LEDs   RAX-1048TZDS     Programmable LED Annunciator c/w 42 Bi-Colored LEDs   Programmable Input Switches Module c/w 48 Bi-Coloured LEDs   Programmable LED Annunciator c/w 42 selector switches and 24 bi-coloured LEDs     PR5-2424DS   Programmable Input Switches Module c/w 48 select	FNC-2000	Fire Network Controller Module					
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   TNC-5000 Telephone Network Controller Module   Adder Loop Controller Modules Adder Loop Controller Module   ALCN-792MISO Network Quad Loop Controller Module   ALCN-792MISO Network Quad Loop Controller Module   ALCN-792M Daughter board for ALCN-792M Quad Loop Controller Module   Adder Hardwire Motules DM-1008A   Eight Class B (Style B) or 4 Class A (Style D) Initiating 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 Auxillary Motules UDACT-300A   Digital Alarn Communicator Transmitter/Dialer Module   PR-300 Polarity Reversal and City Tie Module   PR-300 Polarity Reversal and City Tie Module   RAXN-LCD Remote Network LCD Annunciator c/w 4 x 20 LCD display   RAXN-LCD Remote Graphic LCD Annunciator c/w 4 x 20 LCD display   RAX-1048TZDS Programmable LED Annunciator c/w 42 Selector switches and 48 Trouble LEDs   Programmable IDM Switches Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs   Programmable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDs   IPS-4948DS Programmable Input Switches Module c/w 48 select	FOM-2000-SP	Fiber Optic Network Adder Module					
FOM-CONN-SMFibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UMTNC-5000Telephone Network Controller ModuleAdder Loop Controller ModulesALCN-792MISONetwork Quad Loop Controller ModuleALCN-792DDaughter board for ALCN-792M Quad Loop Controller ModuleAdder Hardwire MotulesDM-1008AEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)SGM-1004SFour Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Class B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary MotulesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDRemote Graphic LCD Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable MotulesIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 48 selector switches	ANC-5000	Audio Network Controller Module					
TNC-5000   Telephone Network Controller Module     Adder Loop Controller Modules     ALCN-792MISO   Network Quad Loop Controller Module     ALCN-792D   Daughter board for ALCN-792M Quad Loop Controller Module     Adder Hardwire Modules   DM-1008A   Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)     SGM-1004S   Four Class A/B (Style ZY') 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     Rmote Annunciator   Remote Annunciator C/W 4 x 20 LCD display   Ratest Colored LEDs     RAXN-LCD   Remote Graphic LCD Annunciator c/W 4 x 20 LCD display   RAXN-LCDG   Remote Graphic LCD Annunciator c/W 4 x 20 LCD display     RAXN-LCDG   Remote LED Annunciator c/W 32 Bi-Colored LEDs   Rade 30 48 Trouble LEDs   Programmable LED Annunciator c/W 4 8 selector switches and 48 Trouble LEDs     Programmable Motules   Programmable Input Switches Module c/W 48 selector switches and 24 bi-coloured LEDs   Programmable LEDs     Programmable Input Switches Module c/W 48 selector switches and 48 bi-coloured LEDs   Programmable Input Switches Module c/W 48 selector switches and 48 bi-coloured LEDs	FOM-CONN-MM	Fibre Optic Module Connector Multi-mode (pack of 2). Must use a FOM-2000-UM					
Adder Loop Controller ModulesALCN.792MISONetwork Quad Loop Controller ModuleALCN.792DDaughter board for ALCN-792M Quad Loop Controller ModuleAdder Hardwire MottlesDM-1008AEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)SGM-1004SFour Class A/B (Style Z)/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary MottlesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRAX1-LCDRemote Network LCD Annunciator d/Y a x 20 LCD displayRAX1-LCDRemote Network LCD Annunciator c/w 32 Bi-Colored LEDsRAX1-LCDRemote LED Annunciator Module c/w 4 x 80 i-Coloured LEDsProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDsProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDsProgrammable ModulesFDX-008WKFan Damper Control Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMain Graphic Driver ModuleWa 20 supervised Outputs	FOM-CONN-SM	Fibre Optic Connector Single Mode (pack of 2). Must use a FOM-2000-UM					
ALCN-792MISONetwork Quad Loop Controller ModuleALCN-792DDaughter board for ALCN-792M Quad Loop Controller ModuleAdder Hardwire MotterDM-1008AEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)SGM-1004SFour Class A/B (Style Z)/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module //w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary MotterUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorRAXN-LCDRemote Network LCD Annunciator d/Y a x 20 LCD displayRAXN-LCDRemote Remote Graphic LCD Annunciator d/Y a 28 L-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesProgrammable LD Annunciator Module c/w 48 selector switches and 24 bi-coloured LEDsProgrammable ModulesFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMain Graphic Driver Module c/w 32 Supervised Outputs	TNC-5000	Telephone Network Controller Module					
ALCN-792D   Daughter board for ALCN-792M Quad Loop Controller Module     Adder Hardwire Mo-     Adder Hardwire Mo-     DM-1008A   Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module (Rated at 1.7 Amps per circuit)     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 Mo-   U     UDACT-300A   Digital Alarm Communicator Transmitter/Dialer Module     PR-300   Polarity Reversal and City Tie Module     Remote Annunciator   Remote Network LCD Annunciator c/w 4 x 20 LCD display     RAXN-LCDG   Remote Renote LED Annunciator c/w 32 Bi-Colored LEDs     RAXN-LCDG   Remote LED Annunciator c/w 32 Bi-Colored LEDs and 48 Trouble LEDs     Programmable Mot-   IED     IPS-2424DS   Programmable LED Annunciator c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs     Programmable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDs     IPS-2424DS   Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs     IPS-4848DS   Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs     FDX-008WKI   Fan Damper Control Module <tr< td=""><td>Adder Loop Contro</td><td>ller Modules</td></tr<>	Adder Loop Contro	ller Modules					
Adder Hardwire ModulesDM-1008AEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit ModuleSGM-1004SFour Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary MotulesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD Annunciator d/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD Annunciator c/w 32 Bi-Colored LEDsRAXN-L02DSMain Remote LED Annunciator d/w 4 x 80-Coloured LEDs and 48 Trouble LEDsProgrammable MotulesIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	ALCN-792MISO	Network Quad Loop Controller Module					
DM-1008AEight Class B (Style B) or 4 Class A (Style D) Initiating Circuit ModuleSGM-1004SFour Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary ModulesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnuciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD Annunciator c/w 32 Bi-Colored LEDsRAX-1032TZDSMain Remote LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable MotulesIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	ALCN-792D	Daughter board for ALCN-792M Quad Loop Controller Module					
SGM-1004SFour Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary ModulesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRamote AnnunciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control ModuleGraphic Annunciator Driver ModuleWa S2 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	Adder Hardwire Mo	dules					
RM-1008AEight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)Adder Auxiliary MottesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD Annunciator c/w 32 Bi-Colored LEDsRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable MottesIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module					
Adder Auxiliary ModulesUDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorsRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD AnnunciatorRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsFDX-008WFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	SGM-1004S	Four Class A/B (Style Z/Y) Notification Appliance Circuit Module (Rated at 1.7 Amps per circuit)					
UDACT-300ADigital Alarm Communicator Transmitter/Dialer ModulePR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorRemote AnnunciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD AnnunciatorRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable MotureIPS-2424DSIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	RM-1008A	Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)					
PR-300Polarity Reversal and City Tie ModuleRemote AnnunciatorRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD AnnunciatorRAXN-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable MotureIPS-2424DSProgrammable Input Switches Module c/w 48 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKIFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	Adder Auxiliary Mo	dules					
Remote AnnunciatorsRAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD AnnunciatorRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control ModuleGraphic Annunciator Viver Module c/w 32 Supervised Outputs	UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module					
RAXN-LCDRemote Network LCD Annunciator c/w 4 x 20 LCD displayRAXN-LCDGRemote Graphic LCD AnnunciatorRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModuleProgrammable Input Switches Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control ModuleGraphic Annunciator Inver Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	PR-300	Polarity Reversal and City Tie Module					
RAXN-LCDGRemote Graphic LCD AnnunciatorRAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control Module c/w 32 Supervised OutputsMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	Remote Annunciato	brs					
RAM-1032TZDSMain Remote LED Annunciator c/w 32 Bi-Colored LEDsRAX-1048TZDSProgrammable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDsProgrammable ModulesIPS-2424DSProgrammable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDsIPS-4848DSProgrammable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDsFDX-008WKFan Damper Control Module c/w 8 programmable switchesFDX-008WKIFan Damper Control ModuleGraphic Annunciator Driver ModulesMGD-32Main Graphic Driver Module c/w 32 Supervised Outputs	RAXN-LCD	Remote Network LCD Annunciator c/w 4 x 20 LCD display					
RAX-1048TZDS   Programmable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs     Programmable Motules   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     Graphic Annunciator Driver Modules   Main Graphic Driver Module c/w 32 Supervised Outputs	RAXN-LCDG	Remote Graphic LCD Annunciator					
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     Graphic Annunciator Driver Modules   MGD-32     MGD-32   Main Graphic Driver Module c/w 32 Supervised Outputs	RAM-1032TZDS	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs					
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     Graphic Annunciatory Driver Modules   Main Graphic Driver Module c/w 32 Supervised Outputs	RAX-1048TZDS	Programmable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble 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     Graphic Annunciator Driver Modules   Main Graphic Driver Module c/w 32 Supervised Outputs	Programmable Mod	lules					
FDX-008W   Fan Damper Control Module c/w 8 programmable switches     FDX-008WKI   Fan Damper Control Module     Graphic Annunciator Driver Modules   Main Graphic Driver Module c/w 32 Supervised Outputs	IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs					
FDX-008WKI   Fan Damper Control Module     Graphic Annunciator Driver Modules     MGD-32   Main Graphic Driver Module c/w 32 Supervised Outputs	IPS-4848DS	Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs					
Graphic Annunciator Driver Modules     MGD-32   Main Graphic Driver Module c/w 32 Supervised Outputs	FDX-008W	Fan Damper Control Module c/w 8 programmable switches					
MGD-32 Main Graphic Driver Module c/w 32 Supervised Outputs	FDX-008WKI	Fan Damper Control Module					
	Graphic Annunciate	or Driver Modules					
AGD-048 Adder Graphic Driver Module c/w 48 Supervised Outputs	MGD-32	Main Graphic Driver Module c/w 32 Supervised Outputs					
	AGD-048	Adder Graphic Driver Module c/w 48 Supervised Outputs					



## **Ordering Information cont'd**

Audio Amplifiers					
QAA-5415-70	70 Volt Quad 15 Watt Amplifier				
QAA-5415-25	25 Volt Quad 15 Watt Amplifier				
QAA-4CLA	Class 'A' (Style 'Z') Converter Module for QAA-5415-25 and QAA-5415-70 Amplifiers				
QAA-5230S-70/25	25 or 70 Volt Dual 30 Watt Amplifier split 'A' 'B' circuits per floor				
QAA-4CLAS	Class 'A' (Style 'Z') Converter Module for QAA-5230S-70/25 and QAA-5230S-525-70/25 Amplifiers				
QAA-5230-70/25	25 or 70 Volt Dual 30 Watt Amplifier				
QAA-5160-70/25	25 or 70 Volt 60 Watt Amplifier				
Graphics Software					
OGN-FLSLIC-ONE	Single Fire Alarm Control Panel License (Price per connection) Requires: OGN-KEY (sold seperately) 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 seperately) Contact us for non-Secutron panel connections				
OGN-KEY	OGN License Key Stick				
Power Supply Module	e				
INX-10AC	Internal Booster Power Supply Module				
Fire & Audio Expansi	on Components and Enclosures				
MMX-2009-12NDS	Large Network Main Chassis. Mounts in the BB-5000 series enclosures.				
ECX-0012	Expander Chassis for the MMX-2009-12NDS. Mounts in the BB-5000 series enclosures.				
BB-5008	Lobby Control Wallbox Enclosure. Supports 8 Module Footprints.				
MMX-DOX-5008MR	Red Metal Door for BB-5008.				
CCH-5008	Custom Mounting Kit for BB-5008. One required per BB-5008.				
BB-5014	Lobby Control Wallbox Enclosure. Supports 14 Module Footprints.				
MMX-DOX-5014MR	Red Metal Door for BB-5014				
CCH-5014	Custom Mounting Kit for BB-5014. One required per BB-5014.				
MMX-QBB-5001R	Audio Backbox				
QMB-5000B	Audio Motherboard and Card Cage				
QPS-5000N	Audio Power Supply (120/240V)				
QBC-5000N	Audio Battery Charger				
Enclosures for Remo	te Annunciators / Programmable Modules				
MMX-BB-1001DR	Remote Annunciator/Programmable Module Enclosure Houses one module.				
MMX-BB-1002DR	Remote Annunciator/Programmable Module Enclosure Houses two modules.				
MMX-BB-1003DR	Remote Annunciator/Programmable Module Enclosure Houses three modules.				
MMX-BB-1008DR	Remote Annunciator/Programmable Module Enclosure Houses eight modules.				
MMX-BB-1012DR	Remote Annunciator/Programmable Module Enclosure Houses twelve modules.				
Mounting Brackets					
M500-BK-9	M500 Series Mounting Bracket. Holds up to 9 modules in a BB-5000 Series enclosure.				
M500-BK-2	M500 Series Mounting Bracket. Holds up to 2 modules in a MMX-BBX-FXMNS enclosure.				
MMX-LOC Componer	nts				
FDS-008	Selector Control Panel				
IM-10	Ten Input Monitor Module (Add suffix "A" for ULC model.)				

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