



FX-2009-12N in a BB-5008R enclosure.

## Description

Mircom's FleX-Net™ FX-2009-12N Network Fire Alarm Control Panel offers modular components to meet a wide variety of applications. Designed for peer-to-peer network communications, the FX-2009-12N allows for a maximum of 63 nodes, while providing reliability, flexibility and expandability.

The FX-2009-12N is based on the proven and reliable FX-2000 Series platform. Each base panel consists of one intelligent signaling line circuit (SLC) capable of supporting 99 analog sensors and 99 addressable modules. In addition the base panel also consists of Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each and a large 4 x 20 back-lit alphanumeric LCD display.

The FX-2009-12N network configuration allows the control panel to be connected to a Mircom network to provide additional input circuits, visual zones, programmable notification appliance circuits, and relays. Each panel can be configured using FX-2000 components. The network interface module allows the panels to communicate on a peer-to-peer network.

The network capabilities allow site specific customization and the ability to meet local and national requirements.

## Features

### Fire Alarm Control

- One expandable to twenty nine Intelligent Signaling Line Circuits (SLC)
- Modular design
- Each SLC Loop is capable of supporting 99 Analog Sensors and 99 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
- Large 4 by 20 character Back-lit LCD Display with user friendly menu
- Panel Security to protect site configurations
- Correlatable Switch Inputs which allows for multi-functional outputs
- Four Status Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- Group bypass with built-in false alarm prevention technology
- RS-232 output for remote system printer or CRT
- Two Event History Logs comprised of a 6000 Alarm History Log for alarm related events and a 6000 Event Log for all events
- Supports three configuration files (current, previous and next configuration) with "hot swap" support
- Supports Conventional Hardwire Adder Modules
- Built-in One Man Walk Test operation
- Configurable for Canadian Two Stage operation
- Built-in 16 zone configurable LED annunciator complete with individual slide-in labels for zone definition
- Configurable for Coded Operation
- Real time 3D graphical monitoring and control using Mircom's Open Graphic Navigator™
- BACnet support
- Supports Boolean logic functions
- Built-in Ethernet port
- Remote diagnostics via a built-in web server
- UL listed for Smoke Control

### Network Features

- Up to 63 nodes
- Peer-to-peer network communications
- Multiple Lobby Control Centers
- Style 4 (Class B) or Style 6 or 7 (Class A) wiring configuration
- Proprietary Arcnet Network Communications protocol
- Supports copper and/or fiber optic network cable



NYC  
Fire Dept.  
COA# 6064

Factory Mutual  
(Pending)

**CATALOG NUMBER 5943**

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Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

## FleX-Net™ FX-2009-12N Network Series Fire Alarm Control Panels



### FX-2009-12N Network Series Large Size Main Chassis

The FX-2009-12N Network Large Size Main Chassis comes complete with one Intelligent Signaling Line Circuit (SLC) Style 4, 6 or 7, Four Style Z/Y (Class A/B) Notification Appliances Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display, a 16 Zone LED Annunciator and a 12 Amp Power Supply. The FX-2009-12N provides space for the FNC-2000 Network Controller Module, up to 8 adder modules and 2 internal display adder modules. The FX-2009-12N mounts in a BB-5000 Series enclosures.

### Power Supply Expansion



### INX-10AC Internal Booster Power Supply Module

Mircom's 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.

### 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.

### Electrical Specifications

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



### ECX-0012 Expander Chassis

The ECX-0012 Expander Chassis for the FX-2009-12N supports up to 12 adder modules and has space for 2 internal display 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 FX-2009-12N 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

### Graphics Software



### Open Graphic Navigator (OpenGN)

Mircom's 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).

## Fire Network Controller Modules



### FNC-2000 Fire Network Controller Module

The FNC-2000 provides network capability to the FX-2009-12N. 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-SP Fiber Optic Network Adder Module. The FNC-2000 mounts in the FX-2009-12N main chassis.



### 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 FX-2009-12N. It seamlessly connects to the interface on the FNC-2000 Fire Alarm Network Controller Module.

## Adder Loop Controller Modules



### ALCN-792M Quad Loop Controller Module

The ALCN-792M Quad Loop Controller Module provides two Signaling Line Circuits (SLC) to the Flex-Net™ system consisting of 99 Analog Sensors and 99 Addressable Modules per loop. The ALCN-792 can be expanded with the use of the ALCN-792D Daughter Board Module. The ALCN-792N occupies one module slot.



### ALCN-792D Daughter board for Quad Loop Controller Module

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

## Dimensions for Annunciator Module Enclosures

Model	Dimensions
BB-1001	9"H x 12.75"W x 1.2"D
BB-1002	18"H x 12.75"W x 1.2"D
BB-1003	26.4"H x 12.75"W x 1.2"D
BB-1008	33"H x 22.5"W x 1.25"D
BB-1012	45"H x 22.5"W x 1.25"D

## Adder Hardware Modules



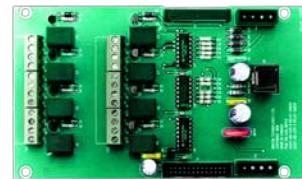
### DM-1008A Eight Initiating Circuit Module

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 in the FX-2009-12N main chassis.



### SGM-1004A Four Notification Appliances Circuit Module

The SGM-1004A provides 4 Style Z/Y (Class A/B) Notification Appliance Circuits. Each NAC circuit is rated at 1.7 Amps and has individual signal silence inputs which are jumper selectable. The SGM-1004A occupies one module slot in the FX-2009-12N main chassis.



### RM-1008A Eight Relay Circuit Module

The RM-1008A provides the FX-2003-12N 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 in the FX-2009-12N main chassis.

## Adder Auxiliary Modules



### UDACT-300A Digital Alarm Communicator Module

The UDACT-300A Digital Alarm Communicator Module allows the FX-2003-12N to transmit addressable point information to a central station. The UDACT-300A occupies one module slot in the FX-2009-12N main chassis.



### 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 in the FX-2009-12N main chassis.

## Remote LCD Annunciators



### RAXN-LCD Remote LCD Annunciator

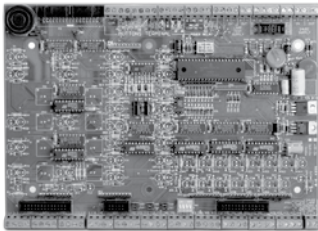
The RAXN-LCD Remote LCD Annunciator provides the same functions as the main display on the fire alarm control panel. The RAXN-LCD occupies one display position in the BB-1000 or BB-5000 Series enclosures.



### RAXN-LCDG Remote Graphic LCD Annunciator

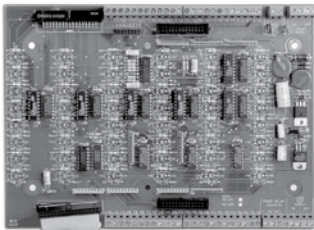
The RAXN-LCDG Remote Graphic LCD Annunciator equipped with a 24 line x 40 character back-lit graphical LCD display that is used to display 9 events per page. Each event is displayed over 2 lines with 40 characters per line allowing emergency information to be displayed in easy to read format. The RAXN-LCDG occupies one display position in the BB-1000 or BB-5000 Series enclosures.

## Graphic Annunciator Driver Modules



### MGD-32 Master Graphic Driver Module

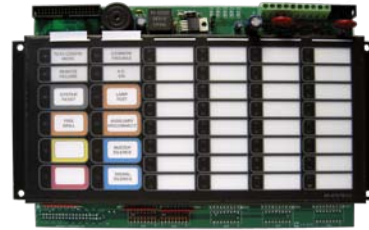
The MGD-32 Master Graphic Driver Module provides common control inputs for the common control switches such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test, Acknowledge and General Alarm. The MGD-32 can also drive up to 32 supervised outputs. These output points are capable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



### 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 enclosures.

## Remote LED Annunciators



### RAM-1032TZ Main Remote LED Annunciator

The RAM-1032TZ Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZ 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-1032TZ occupies one display position in the BB-1000 or BB-5000 enclosures.



### RAX-1048TZ Programmable LED Annunciator Module

The RAX-1048TZ Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZ connects to the main panel or the RAXN-LCD when mounted remotely. The RAX-1048TZ occupies one display position in the BB-1000 or BB-5000 Series enclosures.

## Programmable Modules



### FDX-008 Fan Damper Control Module

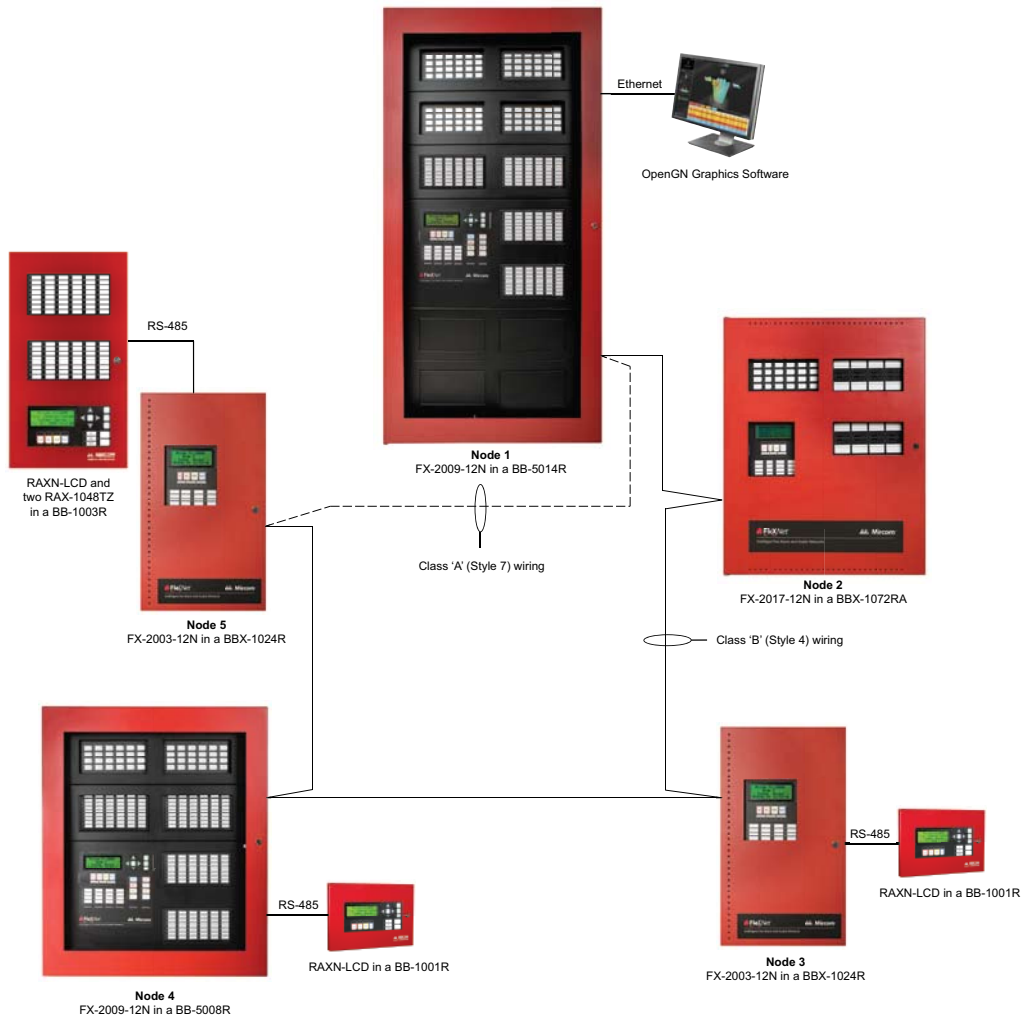
The FDX-008 Fan Damper Control Module provides individually programmed circuits which can be used for fan or damper control. The FDX-008 connects to the main panel or the RAXN-LCD and occupies one display position in the BB-1000 or BB-5000 Series enclosures.



### IPS-2424 Programmable Input Switches Module

The IPS-2424 provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424 connects to main panel or the RAXN-LCD when mounted remotely. The IPS-2424 occupies one display position in the BB-1000 or BB-5000 Series enclosures.

# Typical FleX-Net™ FX-2009-12N Networked System Configuration



## Current Consumption

Model Number	Description	Standby	Alarm
FX-2009-12N	Main Chassis (12 Amp)	0.310	0.733
ALCN-792M	Dual Analog Loops	0.130	0.145
ALCN-792M/D	Quad Analog Loops	0.130	0.145
FNC-2000	Fire Network Controller Module	0.190	0.0190
FOM-2000-SP	Fiber Optics Module	0.015	0.015
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-1004A	4 Notification Appliances Circuit Module	0.060	0.258
RM-1008A	8 Relay Circuit Module	0.025	0.150
FDX-008	Fan Damper Control Module	0.015	0.035
DSPL-420	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
RAX-1048(TZ)	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-1032(TZ)	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

## Ordering Information

Model	Description
<b>Network Fire Alarm Control Panel</b>	
FX-2009-12N	Large Network Main Chassis. Mounts in the BB-5000 series enclosures.
ECX-0012	Expander Chassis for the FX-2009-12N. Mounts in the BB-5000 series enclosures.
<b>Enclosures</b>	
BB-5008	Lobby Control Centre Wallbox Enclosure. Supports 8 Module Footprints.
DOX-5008M	White Metal Door for BB-5008. Add suffix 'R' for red enclosure.
CCH-5008	Custom Mounting Kit for BB-5008. One required per BB-5008.
BB-5014	Lobby Control Centre Wallbox Enclosure. Supports 14 Module Footprints.
DOX-5014M	White Metal Door for BB-5014. Add suffix 'R' for red enclosure.
CCH-5014	Custom Mounting Kit for BB-5014. One required per BB-5014.
<b>Network Controller Modules</b>	
FNC-2000	Fire Network Controller Module
FOM-2000-SP	Fiber Optic Network Adder Module
<b>Adder Loop Controller Modules</b>	
ALCN-792M	Network Quad Loop Controller Module
ALCN-792D	Daughter board for ALC-792M Quad Loop Controller Module
<b>Adder Hardwire Modules</b>	
DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module
SGM-1004A	Four Class A/B (Style Z/Y) Notification Appliances 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)
<b>Adder Auxiliary Modules</b>	
UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module
PR-300	Polarity Reversal and City Tie Module
<b>Remote Annunciators</b>	
RAXN-LCD	Remote LCD Annunciator
RAXN-LCDG	Remote Graphic LCD Annunciator
RAM-1032TZ	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs
RAX-1048TZ	Programmable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs
<b>Programmable Modules</b>	
IPS-2424	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs
FDX-008	Fan Damper Control Module
<b>Enclosures for Remote Annunciators / Programmable Modules</b>	
BB-1001	Remote Enclosure. Houses one module. Add suffix "R" for red door.
BB-1002	Remote Enclosure. Houses two modules. Add suffix "R" for red door.
BB-1003	Remote Enclosure. Houses three modules. Add suffix "R" for red door.
BB-1008	Remote Enclosure. Houses eight modules. Add suffix "R" for red door.
BB-1012	Remote Enclosure. Houses twelve modules. Add suffix "R" for red door.
<b>Graphic Driver Modules</b>	
MGD-32	Main Graphic Driver Module c/w 32 Supervised Outputs
AGD-048	Adder Graphic Driver Module c/w 48 Supervised Outputs
<b>Graphics Software</b>	
OPENGN-MINI	Open Graphic Navigator Software, Mini Edition for standalone FleX-Net Systems
OPENGN-ENT	Open Graphic Navigator Software, Enterprise Edition for FleX-Net Network Systems
OPENGN-CTRL	Open Graphic Navigator Workstation c/w Enterprise Edition and UL/ULC listed computer

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