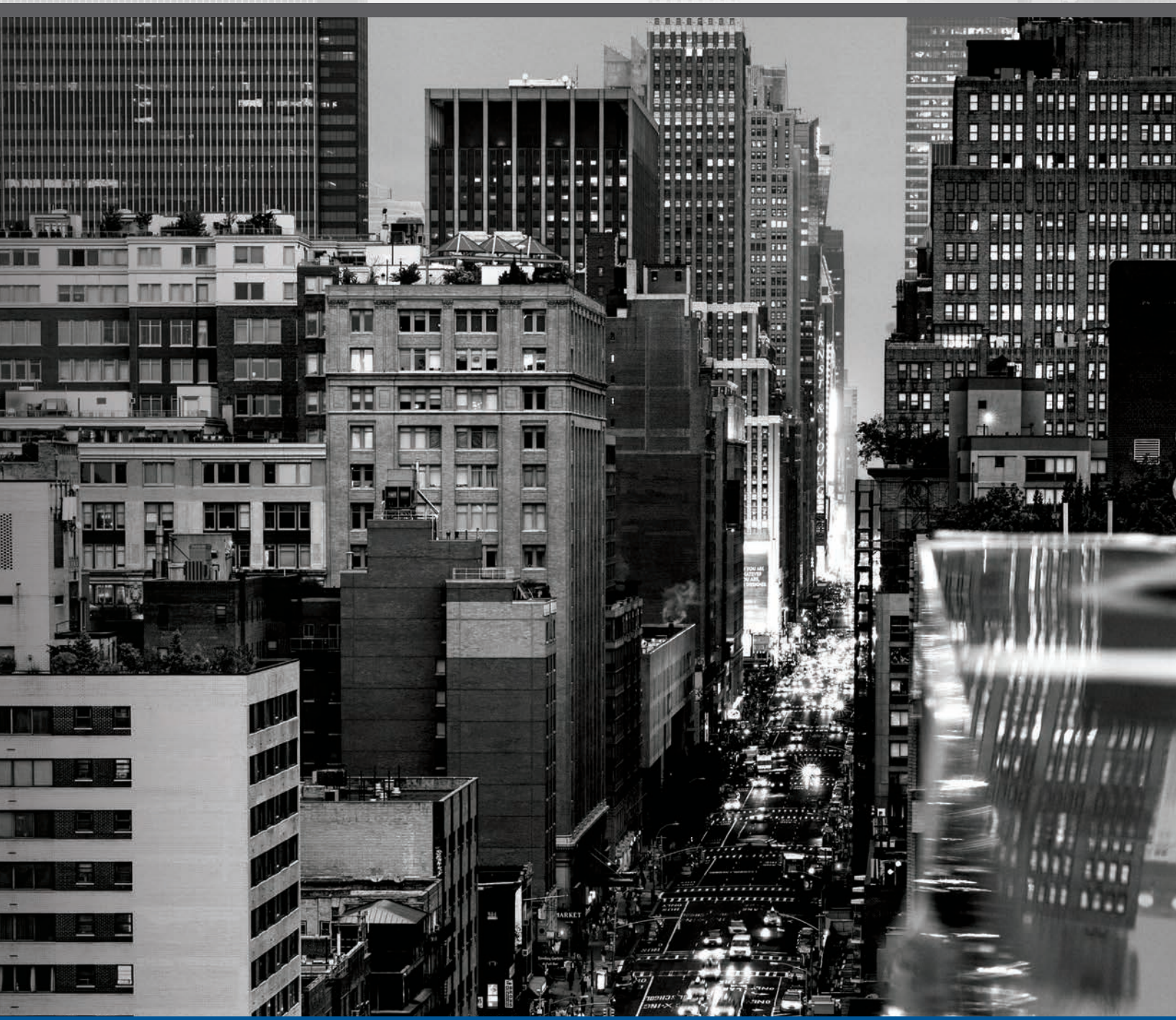
Mircom®

FleXNet™ FX-4000N Series



Mircom.com

FleXNet™

FX-4000N Series



The Most Versatile & Powerful Systems in the Industry

FleX-Net FX-4000N Series is a 'next generation' modular network system that is designed for the most demanding fire protection and emergency communications applications. The FleX-Net FX-4000N Series introduces an impressive new range of system configurations, including a wide array of cabinets and sizes for control and annunciation requirements.

APPLICATIONS

Complete Building System Integration

FleX-Net FX-4000N Series not only integrates all sub-systems, including fire detection & alarm, audio/voice evacuation and HVAC/damper control, it is also designed with built-in BACnet support for seamless integration with Building Management Systems (BMS). FleX-Net eliminates the need for expensive adder modules, required by other systems, and supports both digital and analog input/output devices.











FleX-Net FX-4000N Series is built to meet the latest building code requirements and offers an extensive range of panels, modules and devices for any upgrade or new construction project.

- Commercial Towers
- Hospitals
- University/Corporate Campuses
- Large Hotels
- Large Shopping Malls
- Military Facilities
- High-Rise Residential
- Transportation
- Correctional Facilities
- Manufacturing Facilities
- Distribution Centers

Did you know...
Mircom has their own UL/ULC lab?

ENHANCED INTELLIGENT NETWORK MONITORING & CONTROL

Unparalleled Modular System Design

FleX-Net's modular design provides almost limitless freedom to configure local, group and global control and annunciation where it is needed – including the ability to configure up to 7 LCD display/ control chassis in a single node.

FleX-Net's unique system architecture provides market-leading performance and economy in the widest range of different system configurations:

- Stand alone addressable fire detection system
- Stand alone addressable fire detection and audio system
- Network audio system
- Network fire detection and audio system
- MIX-4000 Devices
- Advanced Protocol (AP)
- Classic Loop Interface Protocol (CLIP)
- One-man and Assisted Walk test
- Digital Audio and Telephone bus over shared network cable
- Job File Management system capable of storing up to 3 separate configuration files
- Single point software & configuration network broadcast capability with zero life safety down time

Designed to Meet the Latest Codes and Standards

FleX-Net complies with the latest fire codes and standards, for control units (listed with UL 864, 10th Edition and ULC S527-11 3rd Edition) and installation (NFPA, ULC S524). FM certified.



FX-4003-12NXT in a
BBX-1024XTB enclosure
(with optional DSPL-420-16TZDS
Main Display module)

OPEN GRAPHIC™ NAVIGATOR

CLEAR ANNUNCIATION GRAPHIC MONITORING & CONTROL

In addition to the widest selection of LED & LCD annunciators, FleX-Net is also supported by Open Graphic Navigator, an advanced 3D graphic software system that takes system monitoring and emergency response to a whole new level.

Enhanced Life and Property Protection

- Complete flexibility to display custom floor plans and graphic symbols
- Custom event messaging

Secure System Configuration/Maintenance

- 3D floor plan graphic user interface
- Import system configuration files without taking system off-line
- Easy device symbol placement on floor plans

Advanced Monitoring and Control

- Real time annunciation of system status
- Annunciation of up to 1000 simultaneous system events
- Extensive event logging with custom reporting

Custom Graphics

- Support for .png or .svg floor plan files
- Select preconfigured or import custom symbols
- Point-and-Click device symbol placement
- Custom event response messages

Intuitive User Interface

- Color-coded event queues
- Clean, easy-to-read system status widget
- Easy to navigate facility using building and floor slider widgets
- Detailed (vector based) 3D building graphics



Winner of the Edison Gold Award for Smart Technology

UL ULC FM APPROVED

FleXNet™ WITH INTEGRATED DIGITAL AUDIO SOLUTION

Mircom's FleX*Net* Fire Platform provides the means to integrate with custom digital audio components, to offer an all in one solution. This integrated fire-digital audio solution can reduce maintenance and labor costs providing a networked hybrid system, enabling easy-to-access troubleshooting and central monitoring for users.

Multi-Protocol: The FleX-Net Platform integrated with the Digital Audio enables the use of either the MGC protocol on the fire SLC inputs, or AP/CLIP protocol, providing flexibility for users.

Compact Enclosure: This integrated fire-digital audio solution, provides access to a 45" tall fire-audio enclosure which can provide up to 400 watts of audio power, and access to the FleX-Net platform for all fire related operations. The same form factor enclosure is used for the digital audio expansion cabinets, delivering up to 575 watts of audio power.

Expandability for Enterprise Scale Applications: With the digital audio platform, up to 9 audio expansion cabinets can be connected to the main node, enabling a system power of up to 5575 watts per node.

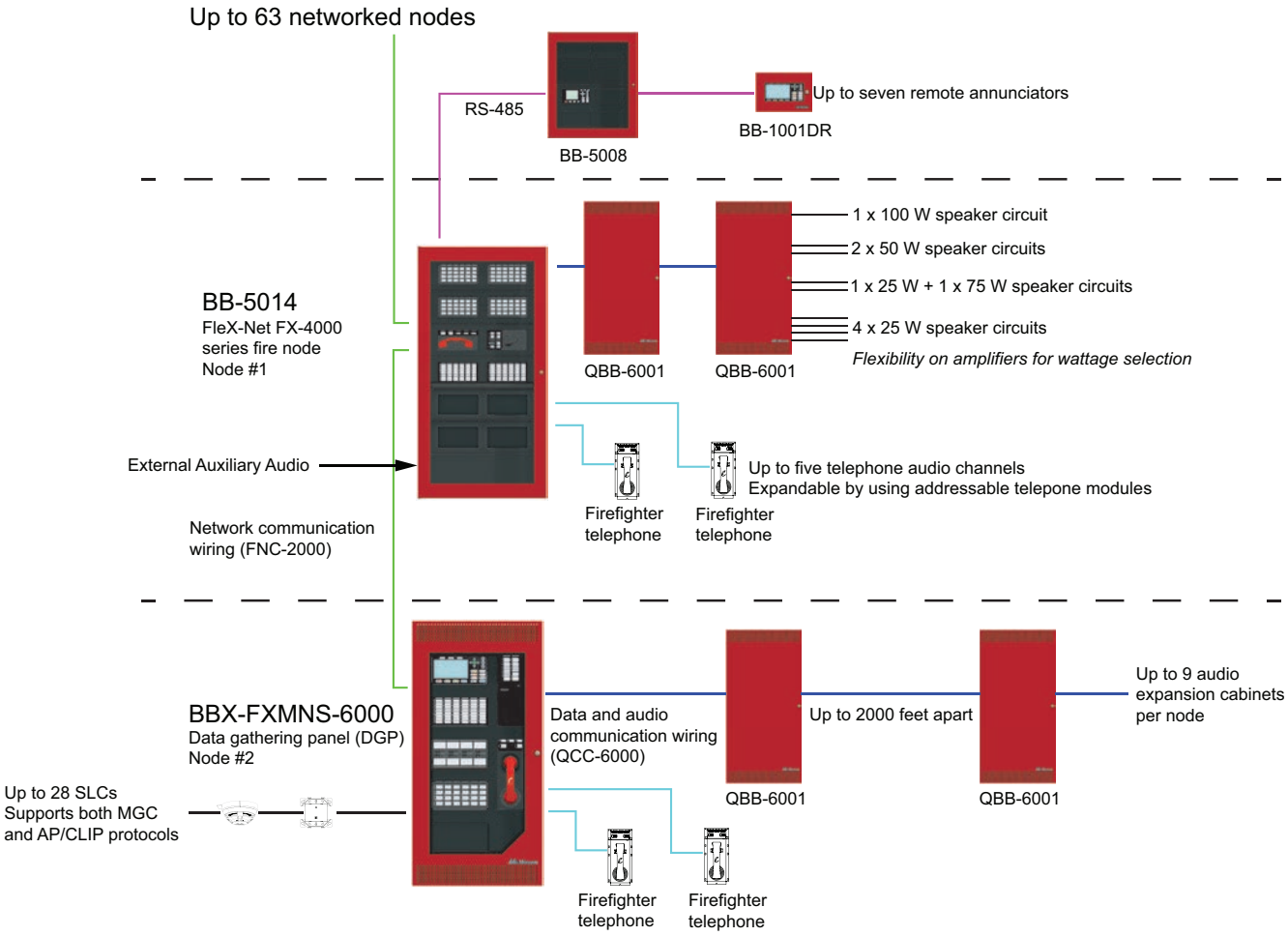
Distribution Capability: The integrated fire-digital audio platform permits the digital audio expansion cabinets to be up to 2000 ft apart from each other. This allows for using this solution in a multitude of applications within the Industrial, Commercial and Institutional (ICI) construction space.



BBX-FXMNS-6000

Integrated Fire-Digital Audio Enclosure

FleXNet™ WITH INTEGRATED DIGITAL AUDIO SOLUTION: SYSTEM CONFIGURATION



Fire-Digital Audio Features:

- Common modular fire alarm components with the FleX-Net platform
- Regulated 24VDC Output for NACs
- Listed for external auxiliary audio (Background Music)*
- Easily accessible wiring terminals for speaker circuits
- Access to built-in class A speaker circuits on the digital audio amplifiers

* Not permitted in Canada

FLEX-NET WITH INTEGRATED ANALOG AUDIO SOLUTION: MASS NOTIFICATION SYSTEM

Meeting Emerging New Codes & Standards

Mircom's FleX-Net with Integrated Analog Audio Mass Notification System (MNS) is designed to support the industry requirements for mass notification. This includes the ability for responding authorities to override fire detection notifications, issue external voice announcements, and simultaneously distribute different emergency messages on any geographic scale required.

The FleX-Net with Integrated Analog Audio Mass Notification System (MNS) is listed to UL2572, and meets the NFPA 72, and UFC/DOD standards for emergency communications systems. FM certified.

Powerful Emergency Communications

The FleX-Net with Integrated Analog Audio MNS system employs the industry's most advanced hardware and software design to provide audible and visual notification, live voice instructions and Internet based text messaging. FleX-Net with Integrated Analog Audio MNS is easily integrated with other public safety systems for emergency communications to wide area networks.

FleX-Net with Integrated Analog Audio Features:

- Up to 63 system nodes with over 50,000 watts of power
- Storage & activation of pre-recorded intelligible voice messages
- Auxiliary inputs for general paging, background music (where permitted*), or other non-emergency functions
- One-Way and Two-Way EVACS capability
- Automatic response to MNS inputs
- Synchronized evacuation zone signaling
- Voice message priority according to risk analysis and emergency response plan
- Visual notification and strobes appliance support
- Public Address/Voice Address (PAVA) system

* Not permitted in Canada

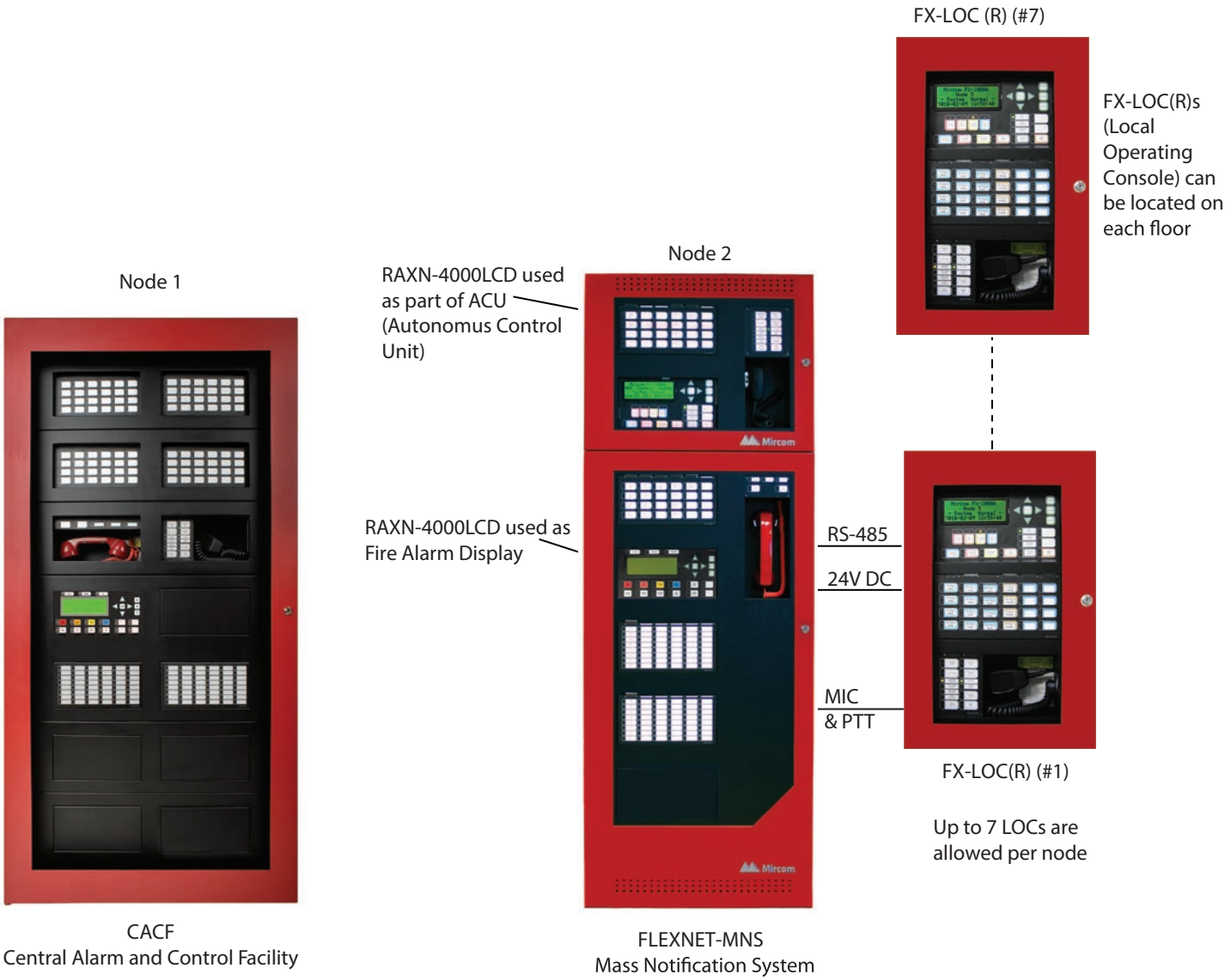


FleX-Net Mass Notification Systems

Autonomous Control Unit (ACU)
and Local Operating Console (LOC).

FLEXNET WITH INTEGRATED ANALOG AUDIO MNS SOLUTION: SYSTEM CONFIGURATION

The advanced FleX-Net network supports tower, campus or a combination of wiring configurations within the network, with complete peer-to-peer system integration.



SUPERIOR PERFORMANCE FOR ALL STAKEHOLDERS – TODAY & TOMORROW

The Mircom FleX-Net system with Mass Notification functionality was carefully designed with the specialized needs of five key stakeholder groups in mind:



Building Staff & Fire Department Operators

Simplicity Easy to use, intuitive to operate

- Advanced control, including 'Warden Page' that integrates remote firefighter phones with audio/evacuation speakers network wide
- Plain language' XML based system reports
- Firmware upgradeable to ensure that the system is always up-to-date
- Equipped with system diagnostic tools to assist service staff

Intelligibility Clear, easy-to-understand instructions, pre-recorded or in real time.

- True multi-channel audio allows each node to support up to three unique alarm and alert tones
- Multiple displays in every MNS cabinet for distinguishing between Fire Detection and Mass Notification Events
- Clear and easy to understand text or graphic display of system events



Owners & Property Managers

Expandability Modular design enables you to grow your network in size and/or functionality.

- Up to 63 nodes with a capacity for over 5,000 I/O points per node, supporting over 250,000 points on a single network
- Support for multi and single mode fiber
- Advanced Protocol (AP) support for increased point count (159 Sensors & 159 Modules per SLC) - Available in Version 12.1 or greater"

Affordability FleX-Net offers the ability to combine Fire Detection and Mass Notification functionality to realize cost savings.

- Up to 7 display and control chassis per node, including local, group or global control
- Designed to support both conventional and intelligent detection for retrofit applications
- Unique system architecture provides additional cost savings system cost

Accessibility FleX-Net is supported abroad by a world-wide network of Authorized Distributors that offer the best competitive value in the industry.

- Factory-trained and accredited installation and service technicians
- Local sales, service and repair parts centers ensure the best support for your system



Engineering & Fire Consultants

Survivability Network redundancy – no single point of failure.

- True 'Peer to Peer' network configuration ensures survivability of the system
- Proven ARCNET™ communications protocol
- Up to 15 coordinated Digital Signal Processors per node
- Synchronized audio signaling across nodes allows multiple nodes to control common areas

Flexibility Intelligent network with seamless integration with Building Management Systems.

- Sophisticated Boolean logic with built-in, configurable timers with interval and scheduling to support complex smoke control functions
- Support of hardwire circuits to uniquely support retrofit applications
- Fully digital system network utilizing 1 twisted pair conductors or fiber optic cable for both control and audio
- New Local Operating Console (LOC) supports fully integrated paging and emergency audio and firefighter telephones
- Annunciators do not decrease node capacity

Versatility Supports a wide array of signaling and detection system modules.

- Offers a wide array of control and annunciation modules
- Advanced device support including laser based smoke detection, multi-criteria sensors, variable analog input modules and monitoring of gas and environmental sensors
- Digitized voice messages utilizing custom .wav file format
- AP Benefits: Speed, More Devices, Mixed CLIP/AP on single SLC

Dealers & Distributors

Continuity The Mircom Group of Companies is North America's largest independent fire solutions provider.

- Over 30 years of experience in providing new innovation and value in fire detection
- Systems proven through an extensive portfolio of projects in over 100 countries around the world
- Regional offices in Canada, USA, India and UAE provide support throughout all phases of the project

Reliability Manufactured in North America, Mircom products have among the lowest warranty claims in the industry.

- FleX-Net systems are built using FX-2000 system components, proven in over a thousand installations, worldwide
- Mircom Group of Companies has built its reputation on exceptional service, from initial design, to trouble-free installation, and after-sale technical support

On-site Maintenance Staff & Technicians

Serviceability Intuitive to install, program, and service; Backed-up with exceptional technical support.

- 'State of the Art' system software stores up to 3 configurations at one time, simplifying loading and program testing
- Service technicians have the ability to load software from one node to the entire network without taking any panel off-line
- Expanded system event reporting from a large front panel LCD display eliminates the need for a service computer
- Ethernet port provides web server system access for both local and remote reporting and diagnostics
- No additional hardware required

SYSTEM COMPONENTS

FIRE DETECTION AND AUDIO

Powerful intelligent networkable fire alarm solution designed with flexibility to meet virtually any application of detection, control, notification and emergency communications, and will fit into most spaces with any of our compatible enclosures.



BBX-FXMNS-6000

Integrated Fire and Digital Audio Command Center/Node

Expandable to 28 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 400 watts per panel.



QBB-6001

Digital Audio Expansion Panel

Provides up to nine audio expansion panels for an additional 5175 watts of audio power per node.



BBX-FXMNSR

Integrated Fire and Analog Audio Command Center/Node

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 180 watts per panel.



QBB-5001R

Analog Audio Expansion Panel

Provides up to three audio expansion panels for an additional 1,080 watts of audio power per node.



FX-LOCR

Local Operating Console

Expandable to 7 Local Operating Consoles per panel. Annunciator consoles do not decrease node capacity.

SYSTEM COMPONENTS

FIRE DETECTION AND ALARM PANELS

Designed for peer-to-peer network communications, the various FleX-Net network panels allow for a maximum of 63 nodes, while providing reliability, flexibility and expandability.



UB-1024DS
with a
DOX-1024DSR

Compact Network Panel

Up to 9 Intelligent Signaling Line Circuits (SLC) with up to 3 expansion modules



BBX-1024XTR

Extended Compact Network Panel

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with up to 9 expansion modules, available in a variety of enclosures



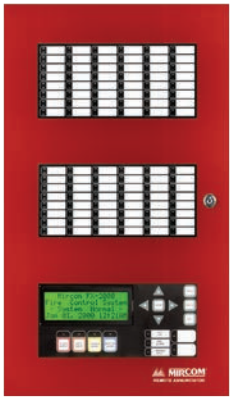
BB-5008
with a
DOX-5008MR

Mid-Size Network Panel

Expandable to 29 Intelligent Signaling Line Circuits (SLC) with up to 17 expansion modules

ANNUNCIATORS

The FleX-Net network annunciators connect to any node and can annunciate the full network system or selected network nodes.



BB-1003DR

Intelligent LCD Network Annunciator

Supports several network annunciators that provide the same functions as the main display on the fire alarm control panel.



OPEN GRAPHIC™ NAVIGATOR

Open Graphic Navigator Software

Open Graphic Navigator is a centralized building management system that provides real-time local or remote monitoring.

Did you know?

Mircom tackles product development, design, manufacturing, servicing and distribution– all under one roof.

SYSTEM MODULES

The FleX-Net intelligent network system has the most extensive range of system modules, detection devices and signaling appliances available. More than an advanced network system, FleX-Net delivers a complete project solution with the support of over one hundred advanced, proven and affordable Mircom fire detection modules.



INX-10A

Auxiliary/Accessories

Including system accessory modules, power supplies, batteries, line modules, digital communicators, devices and device accessories.



Signaling

A wide selection of indoor and outdoor speakers and speaker/ strobes to supply the best notification and evacuation for any application.



Detection

Advanced smoke, heat and multi-technology sensors in standard and specialty detector configurations.



Advanced Multi-Criteria Detection

This addressable detector provides fire and carbon monoxide (CO) detection. Compatible with addressable sounder bases for Temp-3,
Temp-4, and low frequency (520Hz) signaling.

NOTES

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