

E3 Series® Combined Fire/MNS System

Combined Fire and MNS System

General

The Gamewell-FCI®, E3 Series® Broadband Emergency Voice Evacuation System and the E3 Series Broadband Networked Fire Alarm System can be combined on the common network to form a combination Fire and Mass Notification (MNS) System in accordance with the NFPA and UL Standard UL2572 requirements. The E3 Series modules, nodes and control panels are peer-to-peer, self-regenerating, token ring passing networks consisting of either of the following:

- 2 to 64 nodes
- up to 122 nodes with the addition of an ANX

Note: The ANX is used for Fire applications only.

The E3 Series System is a modular design. This adaptable design allows a wide range of configurations to form an integrated, distributed fire alarm system in combination with the audio evacuation for use with both Fire and Mass Notification functions. In addition, the design can be used as a dedicated, standalone Mass Notification System without a fire alarm service.

The network communication conveys all of the following Fire Alarm and Mass Notification control functions:

- Audio evacuation
- Voice paging
- Fire fighter communications over a single pair of wires or fiber-optic cable

A Region contains only one ACU (Autonomous Control Unit), and multiple LOCs (Local Operating Consoles). Speaker circuits cannot be shared by Regions. The individual node types and modules in the E3 Series System family are interconnected to form the ACU and the LOC panels for Mass Notification as well as the following:

- Fire Command
- Control and Detection
- AV Signaling
- Audio functional units within the overall network system

FEATURES & BENEFITS

- Listed under ANSI/UL® Standard UL2572 for Mass Notification
- Listed under ANSI/UL Standard 864, 9th Edition
- IBC Seismic Certified
- Includes a cost-effective, supervised, "Style 7" network wiring using a single pair of wire or fiber-optics at 625K baud
- Uses fully supervised wiring outputs for outstanding protection
- Offers the Base Platform for the Emergency Communications System. Provides true, seamless and scalable integration for Fire and Mass Notification that is configured applying the E3 Series building blocks using up to 122 nodes
- Stores distributed, digital message storage at each audio amplifier location for maximum survivability
- Contains a compact, Local Operating Console (LOC) that is designed for installation in lobbies, doorways and hallways allowing quick access to do the following:
 - Broadcast MNS announcements
 - View the System Status messages
- Designed with a user-friendly, color touchscreen display that provides all Fire and MNS Events at all locations
- Installs a simple configuration of multiple LOCs with expandability from 16 to 64 programmable switches for status, message activation and control
- Broadcasts a digital, audio, resonant sound to meet the intelligibility requirements
- Supports each audio node with up to 150 watts of audio power, provided by three, 50 watt amplifiers in addition to providing 50 watts of standby power
- Applies Advanced Boolean Logic programming to reduce equipment costs by providing software solutions to complex configurations using the following devices
 - Timers
 - Sequencing
 - Schedulers



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Figure 1 illustrates the E3 Series, In-Building MNS configuration setup.

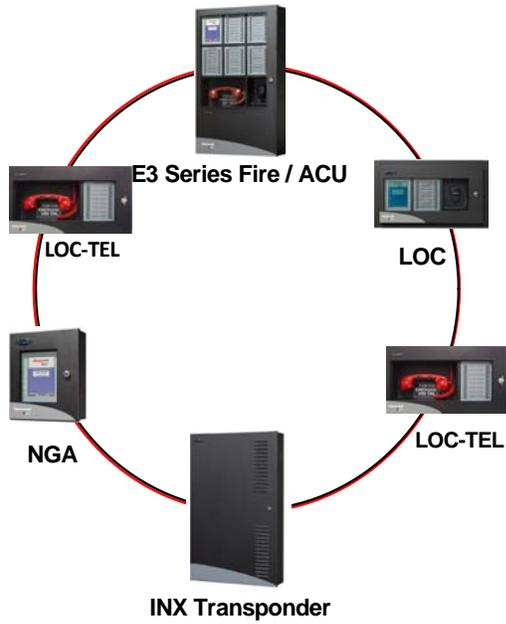


Figure 1 E3 Series, In-Building, MNS Setup

Figure 2 shows the cabinet configurations that can be used in the Mass Notification System.

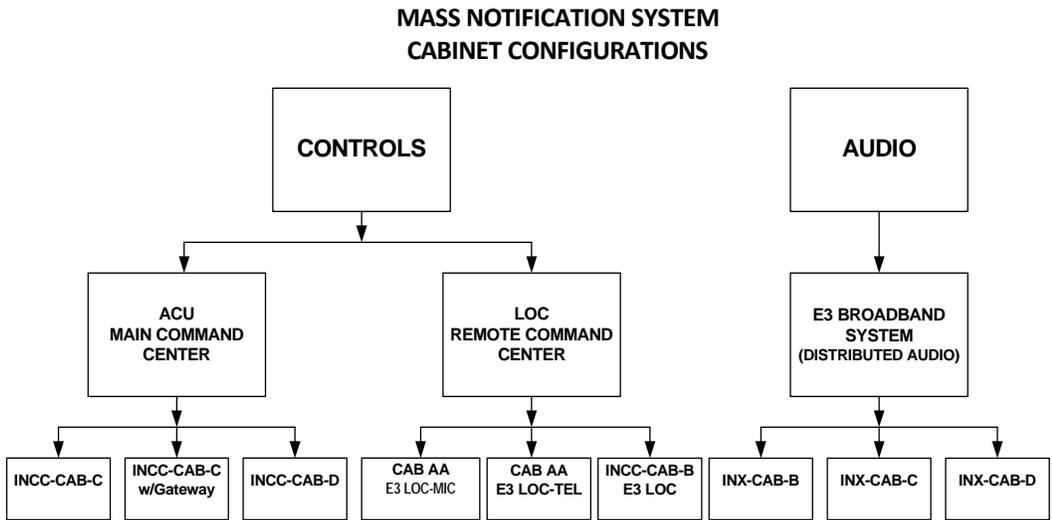


Figure 2 Mass Notification System Cabinet Configurations

Ordering Information

E3 Cabinets and Remote Cabinets for MNS

Part Number	Description	Part Number	Description
REMOTE "AA" CAB SIZE		REMOTE "AA" CAB SIZE	
Part Number	Description	Part Number	Description
REMOTE "AA" CAB SIZE	Replaces E3BB-BA	CABINET "C" SIZE	
Dimensions:	19 1/4" W x 10" H x 4 1/2" D (49 W x 25 H x 11 D cm)	Dimensions:	19 3/8" W x 30" H x 4 1/2" D (49 W x 76 H x 11 D cm)
E3BB-BAA	Enclosure, LOC, "AA" Size, Black	E3BB-BC/INCC	Enclosure, Combination Fire/ACU Black "C" Size
E3BB-RAA	Enclosure, LOC, "AA" Size, Red	E3BB-RC/INCC	Enclosure, Combination Fire/ACU Red "C" Size
E3ID3-A	Assembly, Door, Inner, 3 Slots, "AA" (NGA, ASM-16 and MIC)	E3BB-BC/INX	Enclosure, Transponder, "C" Size, Black
E3ID2-TA	Assembly, Door, Inner, 2 Slots, "AA" (INCC-TEL and ASM-16)	E3BB-RC/INX	Enclosure, Transponder, "C" Size, Red
90510	Kit, AOM-TEL Plate, E3 (LOC)		
90492	Thumb Lock		
REMOTE "AA1 & A2" CAB SIZE		MOUNTING PLATE, "C" CAB	
Remote "AA1 & A2" CAB		E3-INCC-CPLATE	ACU Command Center Module Mounting Plate, "C" Size
Remote "AA1" CAB	Replaces E3BB-BA1	E3-INX-CPLATE	Transponder Module Mounting Plate "C" Size
Dimensions:	8 3/4" W x 10" H x 4 1/2" D (22.2 W x 25 H x 11 D cm)		
E3BB-BAA1	Enclosure, "AA1" Size, Black	INNER DOOR, "C" SIZE	
E3BB-RAA1	Enclosure, "AA1" Size, Red	E3ID3-C	Assembly, Door, Inner, 3-Bay, "C" Size
Remote "A2" CAB			
Dimensions:	13 1/4" W x 10" H x 4 1/2" D (40 W x 25 H x 11 D cm)	CABINET "D" SIZE	
E3BB-BA2	Enclosure, "A2" Size, Black (Deep)	Dimensions:	19 3/8" W x 41" H x 4 1/2" D (49 W x 104 H x 11 D cm)
E3BB-RA2	Enclosure, "A2" Size, Red (Deep)	E3BB-BD/INCC	Enclosure, Combination Fire/ACU Black "D" Size
Flush Cabinet A2 Annunciators		E3BB-RD/INCC	Enclosure, Combination Fire/ACU Red "C" Size
E3BB-NGA-FLUSH		E3BB-BD/INX	Enclosure, Transponder, "D" Size, Black
CAB A2 Remote Flush NGA ANN with Password Protection		E3BB-RD/INX	Enclosure, Transponder, "D" Size, Red
E3 SERIES CABINETS "B", "C", "D" SIZES			
CABINET "B" SIZE		MOUNTING PLATE "D" CAB	
Dimensions:	19 3/8 W x 19 3/8" H x 4 1/2" D (49 W x 49 H x 11 D cm)	E3-INCC-DPLATE	ACU Command Center Module Mounting Plate, "D" Size
E3BB-BB	Enclosure, LOC "B" Size, Black	E3-INX-DPLATE	Transponder Module Mounting Plate, "D" Size
E3BB-RB	Enclosure, LOC "B" Size, Red		
1100-0453	INCC-IDT, Inner Door with 2 Slots, INCC-TEL LOC	INNER DOOR, "D" SIZE	
1100-0454	INCC-ID-6, Inner Door with 6 Slots, INCC-CAB-LOC	E3ID3-D	Assembly, Door, Inner, 3-Bay, "D" Size
1100-0460	INX-CAB, Enclosure, Transponder, B Size, Black	OPTIONAL EXTENDER PLATE	
1100-0461	INX-CAB-R, Enclosure, Transponder, B Size, Red	AM-50 Plate	AM-50 Extender Plate
		E3 SERIES TRIMKIT	
		E3-TRIMKIT-A	Assembly, FNL, TrimRing, CAB A/AA
		E3-TRIMKIT-A1	Assembly, FNL, TrimRing, CAB AA1
		E3-TRIMKIT-A2	Assembly, FNL, TrimRing, CAB A2, E3
		E3-TRIMKIT-B	Assembly, FNL, TrimRing, CAB C, E3
		E3-TRIMKIT-C	Assembly, FNL, TrimRing, CAB C, E3
		E3-TRIMKIT-D	Assembly, FNL, TrimRing, CAB D, E3

E3 Series® Combined Fire/MNS System Technical Specifications

SYSTEM

Device Loops: Up to two Class A or B, System Sensor units, each loop supports up to 318 device addresses.

OR-

Apollo units, each loop supports up to 126 device addresses per loop.

NAC Circuits: 4 Class B or 2 Class A (2.0 A each circuit), 6.0 A total

NAC Operating Voltage: 24 VDC

NAC Minimum Voltage: 19.5 VDC @ 20.4 V battery voltage

SLC Loop Circuit Operating Voltage: 24 V peak-to-peak

Input Voltage: 120 VAC, 60 Hz 240 VAC 50-60 Hz

Input Current: 120 VAC, 2.75 amps max. 240 VAC, 1.4 amps max.

Aux Power (Resettable): Two Auxiliary circuits, 24 VDC, 1.75 A

Aux Power: Supervised, Class 2 Power-Limited
(Non-Resettable): (maximum current of 1.75 is shared between two circuits).

Base Panel Current Draw:

Standby: 0.111 amps

Alarm: 0.243 amps

Operating Temperature: 32°-120° F (0°-49° C)

Relative Humidity: 93% (non-condensing)

Battery Charger Voltage: +24 VDC

Battery Charger Capacity: 55 A/H batteries (cabinet accommodates 12 A/H batteries)

Alarm, Trouble & Supervisory Relay Contacts: Form-C, 2 amps @ 24VDC (resistive)

Cabinet Dimensions:

SLP-BB Dimensions: 14 1/2"Wx20 1/8"Hx4 1/2" D
(36.83W x 51.18 H x 11.43 D cm)

S3BB-RB Dimensions: 19 3/8"Wx19 3/8"Hx4.5" D
(49.22 W x 49.22 H x 11.43 D)

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

For more information

Learn more about Gamewell-FCI's E3 Series® Combined Fire/MNS System and other products available by visiting www.Gamewell-FCI.com

Honeywell Gamewell-FCI

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STANDARDS

The E3 Series Combined Fire/MNS System is designed to comply with the following standard:

UL Standard: 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1869

FM Approved

MEA FDNY: COA 6162

CSFM: 7165-1703:0176

City of Chicago Approved: Class 1

Reference Certificate of Compliance:
VMA 45894-02C

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit:

<http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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