

## Description

### ILI-MB-E3

The Intelligent Loop Interface-Main Board (ILI-MB-E3) is the main interface for the E3 Series® product line. With its state-of-the-art 32 bit RISC processor, this compact “panel on a board” provides a powerful addition to Gamewell-FCI’s single pair conductor solutions. The ILI-E3 Series is used in the following systems.

- E3 Series Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System

This intuitive design provides the following features:

- 2 signaling line circuits
- local energy city box output
- 2 notification application circuits
- auxiliary power output
- auxiliary relay functions

These features, combined with the built-in network and the serial protocols, allow this module to support a host of new and existing products, resulting in a building block approach to the fire alarm panel design.

The ILI-MB-E3 is network ready and occupies 1 of 64 nodes operating at 625K baud. In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes. When this sub-assembly is integrated with proven Broadband components, the result is a flexible yet powerful integrated audio solution. When the system transmits to remote locations, the optional RPT-E3 provides the ILI-MB-E3 with valuable signal boosting and transient protection, as well as connectivity using both wire and fiber-optic cables.

The ILI-MB-E3 provides 2 signaling line circuits and terminals for the connections to up to 159 detectors and 159 modules per SLC in Velociti®. In CLIP™ mode, each SLC supports 99 detectors and 98 modules. The RS-485 interface can support up to a total of 6 LCD-E3 modules, 16 ASM-16, and/or 16 ANU-48 remote LED driver modules.

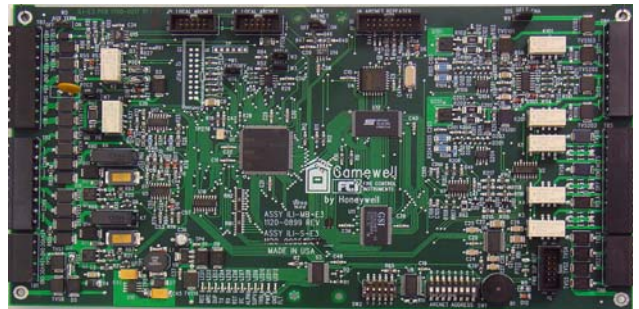
The ILI-MB-E3 relay outputs include system alarm, supervisory, and system trouble contacts. The ILI-MB-E3 provides output for a local energy city master box or remote location which is non power-limited. All other wiring is Class 2 power-limited.

CLIP™ is a trademark of System Sensor.

E3 Series®, NetSOLO® and Velociti® are registered trademarks of Honeywell International Inc.

UL® is a registered trademark of Underwriters Laboratories Inc.

## Intelligent Loop Interface-Main Board



ILI-MB-E3

## Features

### ILI-MB-E3 and ILI-S-E3:

- Listed under UL® Standard 864, 9th Edition.
- Listed under UL Standard UL2572 for Mass Notification.
- Network ready integral 625K baud ARCNET.
- Supports 115.2K baud RS-232.
- Provides signaling line circuits with the following:
  - Two Class A, Style 6, 7\* or Class B, Style 4 circuits.
  - 40 Character user-defined text per device.
  - Capacity of 159 sensors and 159 addressable modules per circuit.
- Includes 4100 Event History Log.

\*Style 7 wiring requires the use of the System Sensor M500X Isolator Modules.

### ILI-MB-E3 Only:

- Two notification appliance circuits, Class “A”, Style Z or Class B, Style Y rated at 2.0 amps. per circuit.
- RS-485 supporting 16 ASM-16 switch modules and/or ANU-48 LED driver modules.
- Alarm, trouble, and supervisory dry contacts Form “C”, rated at 2 amp. @ 30 VDC (resistive).
- Supports six local/remote LCD-E3 annunciators and five LCD-7100/RAN-7100 remote LED annunciators.

SIGNALING



LISTED  
S1869



APPROVED  
3025415



FDNY:  
COA # 231-06-E 7165-1703:0125



City of  
Chicago  
Approved  
Class1  
Class2  
High Rise

City of  
Denver  
Approved



ILI-S-E3

### ILI-S-E3

The Intelligent Loop Interface - Expansion Board (ILI-S-E3) provides the E3 Series control panel with 2 additional signaling line circuits. The layout is similar to the ILI-MB-E3 except a number of components are omitted. The ILI-S-E3 occupies one node on the Broadband network. The ILI-S-E3 provides 2 signaling line circuits and terminals for the connections to up to 159 detectors and 159 modules per SLC in Velociti mode. In clip mode, each SLC supports 99 detectors and 98 modules.

### Installation

Typically, the ILI-MB-E3 or ILI-S-E3 can be mounted in the following E3 Series cabinets:

- Cabinet B and D, backbox
- Cabinet B, B-Slim-E3 sub-assembly plate
- Cabinet C, E3-ILI-C sub-assembly plate
- Cabinet C, E3-INCC-C sub-assembly plate
- Cabinet C, E3-INX-C sub-assembly plate
- Cabinet D, E3-INCC-D sub-assembly plate
- Cabinet D, E3-INX-D sub-assembly plate

For instructions on the installation of the ILI-MB-E3 or ILI-S-E3, refer to the following documents:

- E3 Series® Expandable Emergency Evacuation Installation/Operation Manual, Part Number: 9000-0574
- ILI-MB-E3 Installation Instructions, Part Number: 9000-0579
- ILI-S-E3 Installation Instructions, Part Number: 9000-0569

For information on the ILI95-MB-E3 and ILI95-S-E3, refer to the ILI95-E3 Series Data Sheet, Part Number, 9021-60336.

For information on the ANX, refer to the ANX Data Sheet, Part Number, 9021-60497.

## Specifications

### ILI-MB-E3

**Operating Current:** 0.081 amp  
**Alarm Current:** 0.150 amp max.

### ILI-S-E3

**Operating Current:** 0.118 amp  
**Alarm Current:** 0.119 amp

### ILI-MB-E3 and ILI-S-E3

**Operating Voltage:** 24 VDC FWR (from the PM-9/PM-9G Power Supply).

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

**Relative Humidity:** 0 to 93%, non-condensing at 90° F (32° C)

### Supervised

#### Class 2 Power-Limited

SLC 40 Ohms maximum line impedance

0.5 µf maximum line capacitance

## Ordering Information

### Part Number Description

<b>ILI-MB-E3</b>	Intelligent Loop Interface-Main Board
<b>ILI-S-E3</b>	Intelligent Loop Interface-Expansion Board

### GAMEWELL-FCI

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