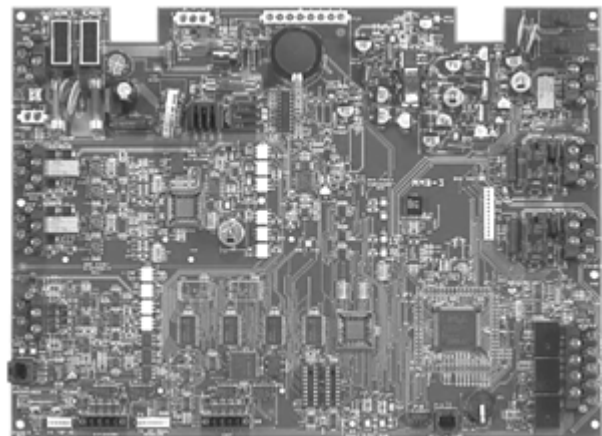


## MXL / MXLV

### Main Motherboard Model MMB-3

#### ARCHITECT AND ENGINEER SPECIFICATIONS

- MXL / MXLV System main-control microprocessor
- Supports 6 Amps (Model MPS-6) or 12 Amps (Model MPS-12) power supply
- Two (2) isolated ALD Circuits:
  - Class A - (Style 6) or
  - Class B - (Style 4)
- No shielded wire required on ALD circuits
- Supports up to 50 total ALD circuits
- Monitor and control up to 60 analog / intelligent input devices and 60 programmable device relays per ALD circuit
- Removable terminal blocks for all field connections
- On-board, 16-bit microprocessor
- Fully field programmable, via laptop PC
- System firmware capable to Flash memory upload
- On-board, diagnostic ground-fault light-emitting diodes (LEDs)



- Built-in Style 4 or Style 7 local-module network
- 'RealTime' Clock
- ©UL 864 9<sup>th</sup> Edition Listed, ©ULC Listed

### Product Overview

The functions and controls for the MXL system are performed by the Main Control Board (Model MMB-3). The Model MMB-3 controls and monitors the following: input-device identity; network communications, and operator commands, which are each entered through the Model MKB annunciator / keyboard. All operations are supported by either the Model MPS-6 or Model MPS-12 power supply — eliminating the need for external power supplies. Model MMB-3 is a direct replacement of Models MMB-1 and MMB-2. Hence, Model MMB-3 is able to provide total backward compatibility.

### Specifications

Model MMB-3 provides two (2) Analog Loop Driver (ALD) circuits. Each ALD loop can be configured as 'Class B' (Style 4) or 'Class A' (Style 6), and each can monitor and control up to 60 analog input devices and 60 programmable device relays. Style 4 or Style 6 ALD circuits are software-programmable, which eliminates the need for jumpers.

Model MMB-3 is equipped with two (2) programmable and 'Class B' (Style Y) or 'Class A' (Style Z) notification-appliance circuits. Each circuit can activate up to 1.5 Amps of Siemens Industry, Inc. — Fire Safety audible and visual notification appliances. Model MMB-3 includes a built-in battery charger and transfer circuit. The charger is microprocessor-controlled, and incorporates a 'brownout' circuit that switches the MXL system to standby batteries during the reduction and / or loss of the primary source AC to avoid inconsistent system operation and damage to the batteries.

Upon command, Model MMB-3 is capable of displaying the 'RealTime' battery voltage, AC voltage, charge current, and other power data on the Model MKB alphanumeric display. Model MMB-3 also has a 24 VDC, 1 Amp output that powers the Model CZM-1 B6 modules. Model MMB-3 is designed with a built-in mounting bracket.

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## Specifications — (continued)

Model MMB-3 mounts directly to the Model MBR-MP mounting plate for mounting in either the Model MME-3 or MME-6 back box enclosure. Model MMB-3 can also be mounted in the Model MBR-2 or MBR-1 enclosures — with Model MBR-1 requiring additional mounting brackets.

The on-board, 16-bit microprocessor — along with nonvolatile EPROM and Flash memory — allow the MXL system to be custom configured to meet a wide range of customer requirements. Model MMB-3 provides a port for connection to a laptop computer, allowing for off-line field programming. Complete system configuration can be easily uploaded, downloaded, and edited. Changes can be verified using Model CSG-M custom programming software with integrated Compare™ system software.

Program options include (but are not limited to):

- Smoke-detector environmental compensation with two (2) maintenance-alert levels
- History logging
- Output-control (by event)
- Check-and-change, time-based control
- Detector sensitivity
- Alarm verification by device or zone
- 32-character, custom alphanumeric messages
- System operation passwords and NAC coding
- Application-specific detection using *FirePrint™*

System firmware is also resident in Flash memory, and can be upgraded by software upload — eliminating the need for upgrade chips.

Model MMB-3 supports local, main-remote networking, via Style 4 or Style 7 wiring. This setup allows a single MXL system to be distributed throughout a facility. Model MMB-3 can then support up to 48 additional ALD circuits (50 total), and a total of 3,000 addressable input devices and programmable device relays. No additional module is required in the enclosure with Model MMB-3 to use Style 7 local network wiring.

## Details for Ordering

Model Number	Part Number	Description
MMB-3	500-648860	MXL Main Control Board (with MBP-MP plate)

## Temperature and Humidity Range

Model MMB-3 is approved for operation within the temperature range of 32° to 120°F (0°C to 49°C), and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

## Installation and Operation Manual [IOM]

Model Number	Part Number	Description
MMB-3	315-078860	MXL Main Control Board (with MBP-MP plate)

**Note:** For further details, refer to MXL IOM manual: 315-092036.

## Related Documentation

Product	Data Sheet Number
MXL	5000
MXLV	5035

**Notice:** This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.