

## SpaceBuilder® System - CAEN-MLO

- Control up to 32 lighting zones
- Configurable emergency/life safety zones
- Flexible dimming control using 2-wire universal-phase dimming, 2-wire forward-phase dimming, or 4-wire 0-10 V dimming
- Allows multizone switching
- 3-phase 120/208 VAC power input
- Utilizes Eaton CHF series 20 A breakers - GFCI or AFCI, rated 10 kAIC
- CAEN-5X1-MLO-120/3P enclosure provides up to five module spaces

The Crestron® CL-SPACEBUILDER-CAEN-MLO SpaceBuilder® system is an MLO cabinet with flexible load types. The CL-SPACEBUILDER-CAEN-MLO is great for spaces that do not have accessible ceilings such as auditoriums, warehouses, sports venues, and large parking structures. The CL-SPACEBUILDER-CAEN-MLO is a quickly configured and shipped main-lug only panel solution that supports all analog dimming loads.

Configure and order the CL-SPACEBUILDER-CAEN-MLO SpaceBuilder® system at [www.crestron.com/spacebuilder](http://www.crestron.com/spacebuilder).

### Module Options:

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#### Dimming Modules

##### 2-Wire Forward Phase Dimming

Deploy 4 A, 2-wire forward phase dimmed loads using the GL-CAEN-2DIM8 KIT. The GL-CAEN-2DIM8 KIT accepts two 20 A inputs that support four 1,920 W (15 A) lighting zones. This module accepts 120 VAC and has a maximum rating of 3,480 W (32 A).

##### 2-Wire Universal Phase Dimming

Deploy 4 A, 2-wire forward or reverse phase dimmed loads using the GL-CAEN-2DIMU8 KIT. Each output auto-detects forward or reverse phase dimming operation. The GL-CAEN-2DIMU8 KIT accepts two 20 A inputs that support four 480 W (4 A) lighting zones. This module accepts 120 VAC power and has a maximum rating of 3,480 W (32 A).

##### 4-Wire 0-10 V Dimming

Deploy 4 A, 4-wire 0-10 V dimmed loads, or 4-wire switched loads, using the GL-CAEN-DIMFLV8 KIT. The GL-CAEN-DIMFLV8 KIT accepts two 20 A inputs that support four 4 A lighting zones. This module accepts 120 VAC power and has a maximum rating of 32 A.

#### Switching Module

Deploy 16 A, 2-wire switched loads using the GL-CAEN-4HSW4 KIT. The GL-CAEN-4HSW4 KIT accepts four 20 A inputs that support four 16 A lighting zones. This module accepts 120 VAC power and has a maximum rating of 64 A.

#### Processor Module

The processor module consists of a DIN-AP3 and a DIN-PWS60, which are mounted to a DIN rail. The DIN-AP3 is a Crestron® 3-Series® Control engine that provides fast and powerful control of the lighting system. The DIN-AP3 supports astronomical time-clock control, 40 Cresnet® control devices, and 50 BACnet™/IP points. The DIN-PWS60 supplies power to the DIN-AP3.

#### Ethernet Uplink Module

The Ethernet uplink module consists of a DIN-CENCN-2-POE and DIN-PWS60, which are mounted to a DIN rail. The DIN-CENCN-2-POE is an Ethernet to Cresnet network bridge that provides scalability to a CL-SPACEBUILDER system. The DIN-CENCN-2-POE receives commands from a DIN-AP3 control system to provide control for the connected modules and to pass commands through to additional CL-SPACEBUILDER systems. The DIN-PWS60 supplies power to the DIN-CENCN-2.

#### Options:

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#### Assembly

The CL-SPACEBUILDER-CAEN-MLO system can be assembled in Crestron's UL508 panel shop. The system can also be ordered as individual components that are shipped independently and require on-site assembly.

#### Voltage

Configure the CL-SPACEBUILDER-CAEN-MLO for use with 3-phase 120/208 VAC line power input.

#### Networking

For easy scalability, CL-SPACEBUILDER-CAEN-MLO systems can be configured to use Ethernet or Cresnet communication.

### Specifications

#### Enclosures

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**CAEN-5X1-MLO-120/3P:** Refer to the [CAEN-5X1-MLO-120/3P](#) product page for specifications.

#### Dimming Modules

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**GL-CAEN-2DIM8 KIT:** Refer to the [GL-CAEN-2DIM8 KIT](#) product page for specifications.

**GL-CAEN-2DIMFLV8 KIT:** Refer to the [GL-CAEN-2DIMFLV8 KIT](#) product page for specifications.

**GL-CAEN-2DIMU8 KIT:** Refer to the [GL-CAEN-2DIMU8 KIT](#) product page for specifications.

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### Switching Modules

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**GL-CAEN-4HSW4 KIT:** Refer to the [GL-CAEN-4HSW4 KIT](#) product page for specifications.

### Control System Processor

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**DIN-AP3:** Refer to the [DIN-AP3](#) product page for specifications.

### Ethernet Uplink

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**DIN-CENCN-2-POE:** Refer to the [DIN-CENCN-2-POE](#) product page for specifications.

### Power Supply

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**DIN-PWS60:** Refer to the [DIN-PWS60](#) product page for specifications.

### Circuit Breakers

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Breakers are rated to 10 kAIC;  
Maximum wire gauge 4 AWG

### Main Lug

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225 A maximum;  
Maximum wire gauge 4/0 AWG

### Construction

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**Enclosure:** NEMA 1 metal enclosure suitable for installation in plenum air-handling spaces

### Environmental

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**Temperature:** 32° to 104°F (0° to 40°C)

**Humidity:** 10% to 90% RH (noncondensing)

### Dimensions

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**CAEN-5X1-MLO-120/3P:**

**Height:** 62.75 in. (1,594 mm)

**Width:** 16.10 in. (409 mm)

**Depth:** 4.98 in. (127 mm)

### Compliance

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CE, UL  
Assembled cabinets are UL508 Listed

## Models and Accessories

### Available Model

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**CL-SPACEBUILDER-CAEN-MLO**  
SpaceBuilder® System - CAEN-MLO

### Available Accessories

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**CAEN-5X1-MLO-120/3P**

Automation Enclosure, 5 modules high x 1 module wide, 20 breaker slots, three phase

**DIN-AP3**

DIN Rail 3-Series® Automation Processor

**DIN-CENCN-2-POE**

Ethernet to Cresnet® Bridge with PoE

**DIN-PWS60**

DIN Rail 60 W Cresnet® Power Supply

**GL-CAEN-2DIM8 KIT**

8-Channel Dimmer Module with Terminal Block, 2 Feeds, 120 V

**GL-CAEN-2DIMFLV8 KIT**

8-Channel 0-10 V Dimmer Module with Terminal Block, 2 Feeds, 120 V

**GL-CAEN-2DIMU8 KIT**

8-Channel Universal Dimmer Module with Terminal Block, 2 Feeds, 120 V

**GL-CAEN-4HSW4 KIT**

4-Channel High-Inrush Switch Module with Terminal Block, 4 Feeds, 120 V

## SpaceBuilder® System - CAEN-MLO

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](https://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](https://www.crestron.com/opensource).

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