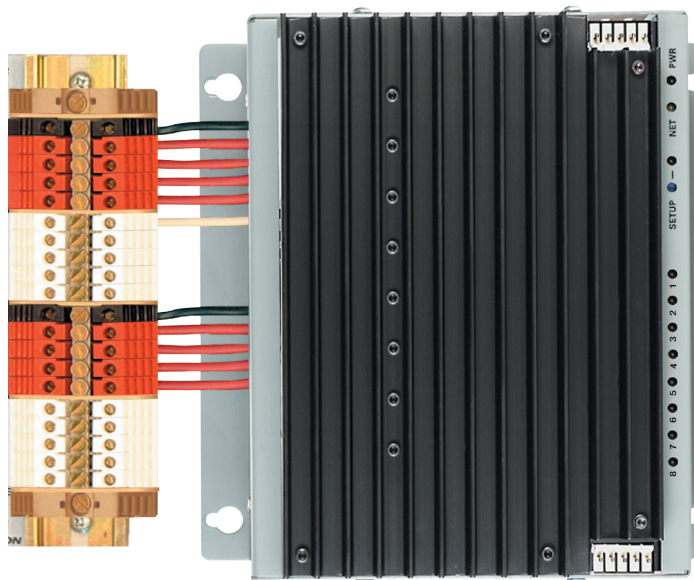


# GL-CAEN-2DIM8 KIT

## 8 Channel Dimmer Module w/Terminal Block, 2 Feeds, 120V

- > Eight-channel dimmer module for commercial lighting applications
- > Installs in a Crestron® CAEN or CAEN-MLO enclosure
- > Supports dimmable incandescent, magnetic low-voltage, neon/cold cathode, and 2-wire fluorescent lighting loads
- > Single or dual feeds — two four-channel dimmers in one module
- > Rated 16 Amps per channel, 32 Amps total (using two 20 Amp feeds), at 120 Volts AC
- > Forward phase dimming
- > Customizable dimming curves via software
- > Built-in air gap relay per channel
- > Convection cooled for silent operation
- > Closure-activated override mode
- > UL® 924 and CSA® C22.2 No. 141-15 listed for emergency lighting control
- > Crestron system integration via Cresnet®
- > Includes terminal block for high-voltage wiring
- > CEC Title 24 2013 compliant



The Crestron® GL-CAEN-2DIM8 is an eight-channel, two-feed dimmer module designed for 120V commercial lighting system applications. It installs in a [CAEN](#) or [CAEN-MLO](#) enclosure and provides control of a variety of dimmable lighting load types including incandescent, magnetic low-voltage, neon/cold cathode, and 2-wire fluorescent. Dual feed capability provides two independent four-channel dimmers in one module space. Each output channel is rated for 1920 Watts (16 Amps), with a total module rating of 3840 Watts (32 Amps) when fed from two separate 20 Amp feeds.

### Forward Phase Dimming

The GL-CAEN-2DIM8 employs forward phase (leading edge) dimming to handle inductive load types like magnetic low-voltage and neon, as well as incandescent and 2-wire fluorescent.

### Air-Gap Relays

An air-gap relay on each channel output allows individual circuits to be serviced without disabling the entire module.

### Silent Operation

Low-maintenance convection cooling with over-sized heatsinks affords silent operation with no mechanical components to wear out.

### Emergency Lighting Control

The GL-CAEN-2DIM8 is UL® 924 and CSA® C22.2 No. 141-15 listed for use in controlling emergency lighting loads. In the event of a power failure, a contact closure from a power loss sensor (Crestron [GLS-PLS-120/277](#), sold separately) activates the override mode in the GL-CAEN-2DIM8 to turn on each designated lighting load if it is off (assuming line power is supplied by a backup power source). The override dimming level can be preset to any value when commissioning the lighting system, so even if the load is already on prior to a power failure, it will change to the preset level when override mode is activated.

### Centralized Lighting Cabinet Installation

Crestron GL-CAEN series commercial lighting control modules are designed to be installed in a CAEN or CAEN-MLO wall mount enclosure. Available in a variety of sizes, CAEN and CAEN-MLO enclosures provide a scalable, high-density centralized lighting control solution for any-sized commercial building or facility. A selection of GL-CAEN module types is offered to accommodate a wide range of load types and system configurations.

Each lighting control module, including the GL-CAEN-2DIM8, ships complete with a DIN rail terminal block for termination of the high-voltage feed and load wiring. This terminal block mounts beside the module within the enclosure. Low-voltage control signals are bussed between each of the modules within an enclosure via a simple 5-wire link (interconnect jumpers included), which terminates to a single terminal block (model [CAEN-BLOCK](#), sold separately) at the bottom of the enclosure.

### Cresnet® Communications

The GL-CAEN-2DIM8 interfaces with a Crestron control system (a.k.a., control processor or automation processor) via Cresnet. Cresnet is a simple 4-wire network bus that provides the communications backbone for a system of Crestron lighting dimmers, switches, keypads, shades, thermostats, and other devices.

# GL-CAEN-2DIM8 KIT 8 Channel Dimmer Module w/Terminal Block, 2 Feeds, 120V

## SPECIFICATIONS

### Load Control

**Dimmer Channels:** 8  
**Dimmable Load Types:** Incandescent, magnetic low voltage, neon/cold cathode, 2-wire fluorescent  
**Per Channel Load Rating:** 16 Amps (1920 Watts)  
**Per Group Load Rating:** Group 1 (Channels 1-4): 16 Amps (1920 Watts);  
Group 2 (Channels 5-8): 16 Amps (1920 Watts)  
**Module Total Load Rating:** 32 Amps (3840 Watts)<sup>[1]</sup>  
**Minimum Load:** 25 Watts  
**Line/Load Voltage:** 120 Volts AC, 50/60 Hz; requires one or two single-phase feeds (may be same phase or split phases)

### Connections

Via Terminal Block (included):

- LINE 1 – 2:** (2) Screw terminals, black, line power feed inputs (per group)
- DIM 1 – 8:** (8) Screw terminals, red, load outputs (per channel)
- N IN 1 – 2:** (2) Screw terminals, white, line power feed neutrals (per group)
- N OUT 1 – 8:** (8) Screw terminals, white, load neutrals (per channel)

*Note: Each terminal accepts one 14-10 AWG wire.*

**Module Interconnect:** (2) 5-pin 0.156 inch headers; Cresnet/Override interconnect ports;  
Each connects to the adjacent module using the interconnect jumper provided; connects to a **CAEN-BLOCK** (sold separately) when installed in the lowest position within the enclosure

### Controls & Indicators

**PWR:** (1) Green LED, indicates line power is applied to the LINE 1 terminal  
**NET:** (1) Yellow LED, indicates Cresnet communication with the control system  
**SETUP:** (1) Pushbutton and (1) red LED, used to enter Local mode and test each channel  
**1 – 8:** (8) Red LEDs, each indicates the status of the corresponding channel

### Environmental

**Temperature:** 32° to 104° F (0° to 40° C)  
**Humidity:** 10% to 90% RH (non-condensing)  
**Heat Dissipation:** 26 BTU/hr + (4.7 BTU/hr x Load Current in Amps);  
176 BTU/hr at maximum load

### Enclosure

Gray metal with black heat sink, surface mount module with (2) integral mounting flanges;  
Occupies 1 module space in a **CAEN** or **CAEN-MLO** enclosure

### Dimensions

**Height:** 7.59 in (193 mm)  
**Width:** 6.92 in (176 mm)  
**Depth:** 3.43 in (87 mm)  
*Dimensions do not include the terminal block*

### Weight

4.50 lb (2.04 kg)

### Compliance

UL Listed for US & Canada, IC, UL 508, UL 924, CSA C22.2 No. 14, CSA C22.2 No. 141-15, CEC Title 24 2013, FCC Part 15 Class A digital device

## MODELS & ACCESSORIES

### Available Models

**GL-CAEN-2DIM8 KIT:** 8 Channel Dimmer Module w/Terminal Block, 2 Feeds, 120V

### Available Accessories

**CAEN:** Automation Enclosures

**CAEN-MLO:** Automation Enclosures with Integrated Breaker Panel

Notes:

- When connecting to a third-party arc fault breaker, the total load should not exceed 1,000 Watts per feed.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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

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

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