CLC-1LEDPWM-RGBW-EX

RGBW LED Controller

> 4 independently-controlled channels of RGBW color mixing for LEDs
> Multiple white hues on any or all four channels
> Configurable PWM for flicker-free performance
> Over-current protection
> infiNET EX® wireless communications

The Crestron® CLC-1LEDPWM-RGBW-EX provides four independently controlled channels of RGBW color mixing for LEDs. Achieve spectacular colored accent lighting to highlight architectural features, provide mood lighting, or spread a little holiday cheer. Choose from an array of white hues on any or all of the four channels to boost the general room illumination. This RGBW LED Controller uses a configurable Pulse Width Modulation (PWM) frequency for flicker-free performance. Over-current protection ensures the long life of this LED controller.

infiNET EX®

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.[1]

The CLC-1LEDPWM-RGBW-EX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model CEN-GWEXER, DIN-AP3MEX, or MC3[2]). Up to 100 infiNET EX devices may coexist on a single wireless network, and every device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths.[1] Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.

SPECIFICATIONS

Load Ratings

Load Type: LED
Max Load Rating: Total of 4 Amps
Load Rating Per Channel: 4 Amps
PWM Default: 1,000 Hz; Configurable for 24 Hz to 1,200 Hz

Wireless Communications

RF Transceiver: infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant
Range (Typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); Subject to site-specific conditions and individual device capabilities[1]
Gateway: Requires an infiNET EX gateway[1]

Power Requirements

Input Voltage: 12 Volts DC to 24 Volts DC (to match the LEDs)
Max Current Capacity: 4 Amps

Connections

+, +, R, G, B, W: (6) 2-pin 3.5 mm detachable terminal block output ports
PWR: (1) 2-pin 3.5 mm detachable terminal block; 24 Volts DC power input

Controls & Indicators

(1) Pushbutton, for Test mode and Acquire mode
(1) Red and green LED, indicates power and status

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)

Construction

Plastic, black, (2) integral surface mounting flanges, vented sides

Dimensions

Height: 0.68 in (18 mm)
Width: 2.58 in (66 mm)
Depth: 2.49 in (64 mm)

Weight

1.6 oz (45 g)

MODELS & ACCESSORIES

Available Models

CLC-1LEDPWM-RGBW-EX: RGBW LED Controller

CRESTRON

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway
CEN-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector
CENI-GWEXER: infiNET EX® & ER Wireless Gateway - International Version
CENI-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector - International Version
MC3: 3-Series Control System® w/infiNET EX®
DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX®
CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Crestron also offers dedicated infiNET EX expanders (models CLW-EXPEX or GLA-EXPEX, sold separately), which may be deployed to fill gaps in coverage and extend the wireless range of the mesh network. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of approximately 50. Additional gateways may be deployed to support more devices, with a maximum of 16 gateways permitted on a complete system (RF conditions allowing).
2. Item(s) sold separately.

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 or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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CAD DRAWING

2.58 in
[66 mm]

1.84 in
[47 mm]

2.49 in
[63 mm]

.69 in
[18 mm]