



## 5 - Channel RGBCCT LED Amplifier, 5 - in - 1 Common Anode, DC 12 - 24V, 6A per Channel

- Five output channels for RGBCCT (5 - in - 1) common anode strip
- 6A maximum output current per channel
- High - speed optical coupler with 10 Mbps output rate
- Optoelectronic isolation between input and output
- MOSFET output stage rated for high channel current
- Compact 5 × 2 × 1 in housing weighing 0.3 lb

### OVERVIEW

The C-AM5-360 is a 5-channel LED signal amplifier for RGBCCT (5-in-1, common anode) LED strip systems. It is intended for installations where signal strength must be maintained across extended runs, repeating the output of an existing PWM LED controller without adding control hardware. Cascading additional amplifiers extends the driven load further along the run.

The amplifier operates on a DC 12-24V input and delivers up to 6A per channel, with input and output voltage matched to the connected strip. A high-speed optical coupler with a 10 Mbps output rate reproduces the controller signal synchronously, and MOSFET output devices handle the channel current. Input and output are optoelectronically isolated. The housing measures 5 x 2 × 1 in and weighs 0.3 lb, suiting space-constrained enclosures. Intended for dry indoor locations.

Covered by a 1-year warranty.

### SPECIFICATIONS

#### OPTICAL

|              |          |
|--------------|----------|
| LED Lifetime | 50,000 h |
|--------------|----------|

#### ELECTRICAL

|                   |      |
|-------------------|------|
| Operating Voltage | 24 V |
|-------------------|------|

|                 |     |
|-----------------|-----|
| Maximum Current | 6 A |
|-----------------|-----|

|                       |                              |
|-----------------------|------------------------------|
| Input Connection Type | Screw terminal, common anode |
|-----------------------|------------------------------|

|             |                                         |
|-------------|-----------------------------------------|
| Device Type | 5 - channel RGBCCT LED signal amplifier |
|-------------|-----------------------------------------|

#### MECHANICAL

|                    |              |
|--------------------|--------------|
| Product Dimensions | 5 × 2 × 1 in |
|--------------------|--------------|

|        |        |
|--------|--------|
| Weight | 0.3 lb |
|--------|--------|

#### ORDERING

|          |     |
|----------|-----|
| Warranty | 1 y |
|----------|-----|

APPLICATIONS

- Extended cove and perimeter RGBCCT strip runs
- Retail display and casework lighting
- Architectural accent lighting in dry interiors
- Hospitality feature walls and ceilings
- Control enclosures serving multi-zone strip layouts

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| slug                  | value                                 | source | confidence |
|-----------------------|---------------------------------------|--------|------------|
| led_lifetime_h        | 50,000 h                              | db     | high       |
| operating_voltage     | 24 V                                  | pdf    | high       |
| current_draw          | 6 A                                   | pdf    | high       |
| input_connection_type | Screw terminal, common anode          | pdf    | medium     |
| device_type           | 5-channel RGBCCT LED signal amplifier | pdf    | high       |
| product_dimensions    | 5 × 2 × 1 in                          | db     | high       |
| weight                | 0.3 lb                                | db     | high       |
| warranty_years        | 1 y                                   | db     | high       |

Specifications subject to change without notice.

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