



RGB LED Mini Amplifier, 4-Loop RGB, DC 5-24V Input, 12A Output, 45 x 12 x 3 mm Body

- Signal repeater and power booster for RGB LED strip runs
- DC 5-24V input range suits common low-voltage LED systems
- 12A output current across four RGB loops
- 60W rated load with stable signal retransmission circuitry
- Compact 45 × 12 × 3 mm housing at 10 g for in-channel mounting
- Rated for -20 to 60 degrees C ambient operation

OVERVIEW

Mini amplifier for RGB LED lighting systems, serving as a signal repeater and power booster on extended strip runs. It receives the output of an RGB LED controller and retransmits it to a downstream group of LED light sources, holding color output and synchronization consistent across the full installation. The unit is used together with a controller and RGB LED fixtures rather than on its own.

The amplifier accepts DC 5-24V supply, delivers up to 12A output across four RGB loops, and carries a 60W rated load. The 45 × 12 × 3 mm housing weighs 10 g and operates in ambient temperatures from -20 to 60 degrees C, allowing installation inside channel, cove or cabinet cavities.

Backed by a 1-year warranty.

SPECIFICATIONS

OPTICAL

LED Lifetime 50,000 h

MECHANICAL

Product Dimensions 45 × 12 × 3 mm

Weight 0.02 lb

ORDERING

Warranty 1 y

ELECTRICAL

Operating Voltage 24 V

Wattage 60 W

Current Draw 12 A

Wire Length 8.7 in

ENVIRONMENTAL

Ambient Operating Temperature -20-60 °C
-4-140 °F

APPLICATIONS

Extended RGB cove and perimeter lighting runs

Retail display and casework strip lighting

Architectural facade and signage color systems

Hospitality accent lighting installations

Cabinet and millwork RGB tape circuits

slug	value	source	confidence
led_lifetime_h	50,000 h	db	high
operating_voltage	24 V	pdf	high
wattage	60 W	pdf	high
current_draw	12 A	pdf	high
wire_length	8.7 in	pdf	medium
product_dimensions	45 × 12 × 3 mm	pdf	high
weight	0.02 lb	pdf	medium
ambient_temp_c	-20–60 °C	pdf	high
warranty_years	1 y	db	high

Specifications subject to change without notice.

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