



Single Color LED Controller, 12 - 24 V DC, 144 W Output, 2.4 GHz RF, IP20

- 4096-level logarithmic dimming across a 0.1% to 100% range
- 2.4 GHz RF control at 30 m with auto-forwarding between controllers
- Constant voltage output rated to 6 A maximum
- DC5521 male and female connectors for inline installation
- Pairs with up to 12 separately purchased remotes
- CE certified with a 5-year warranty

OVERVIEW

A single-channel constant voltage controller for single color low voltage LED strip and modules operating at 12-24 V DC. DC5521 male and female connectors on the input and output allow inline placement between the driver and the load in coves, cabinets and display fixtures. The 76 × 19 × 8.8 mm housing fits inside extrusions, junction boxes and millwork cavities.

Output is rated to 6 A and 144 W with a logarithmic dimming curve across 4096 levels and a dimming range of 0.1% to 100%. Control is by 2.4 GHz RF over a 30 m distance, with signal auto-forwarding between controllers to extend coverage, and Tuya Smart app, Alexa, Google Assistant and Yandex Alice operation when a 2.4 GHz gateway is used. PWM frequency is switchable between high and low, and a do-not-disturb mode retains the pre-outage on or off state.

Rated IP20 for dry interior locations, with an operating range of -10 to 40 °C. CE certified and covered by a 5-year warranty.

SPECIFICATIONS

OPTICAL

Selectable CCT *	Single Color
LED Lifetime	50,000 h

MECHANICAL

Product Dimensions	76×19×8.8 mm
Finish	White

ORDERING

Warranty	5 y
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ELECTRICAL

Operating Voltage	24 V
Wattage	144 W
Current Draw	6 A
Dimmer Type	0 - 10V
Input Connection Type	DC5521 male and female connectors

ENVIRONMENTAL

IP Rating	IP20
Environmental Rating	Non-Waterproof
Ambient Operating Temperature	-10-40 °C 14-104 °F

CERTIFICATIONS & COMPLIANCE



CE

APPLICATIONS

- Cove and perimeter LED strip runs
- Retail display cases and shelving
- Under-cabinet and millwork lighting
- Hospitality guest room accent lighting
- Architectural interior detail lighting

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
cct_selectable	Single Color	db	low
led_lifetime_h	50,000 h	db	high
operating_voltage	24 V	pdf	high
wattage	144 W	pdf	high
current_draw	6 A	db	high
dimmer_type	0 - 10V	db	high
input_connection_type	DC5521 male and female connectors	pdf	high
product_dimensions	76×19×8.8 mm	db	high
finish	White	db	high
ip_rating	IP20	both	high
environmental_rating	Non - Waterproof	db	high
ambient_temp_c	- 10–40 °C	db	high
warranty_years	5 y	db	high

* Value inferred from source data; verify before specification.
Specifications subject to change without notice.