

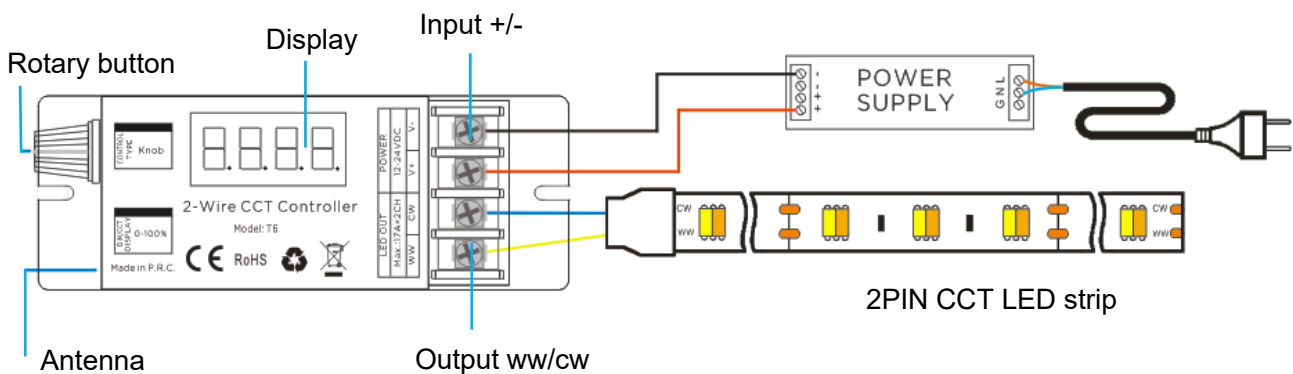


546638 StrongLumio RF control unit for 2PIN CCT strips

1. Product overview

The product is designed for wireless control of 2PIN CCT LED strips with an input voltage of 12–24 V. It allows brightness and white color temperature adjustment using a rotary button or a remote control. Use the device only according to this user manual. Do not disassemble or modify the product in any way. Store and use the appliance only in a dry indoor environment or in an area protected from weather conditions. It is not suitable for use in exterior.

1.1. Wiring and installation



2. Technical parameters

Parameter	Value	Parameter	Value
Model	546638 / T7	Radio frequency	RF 2,4 GHz
Power supply	12 V/24 V DC	Standby power consumption	≤1 W
Color adjustment	Yes, 100% warm - 100% cold	Dimming	Yes, PWM, 0-100 %
Short-circuit protection	Yes	Dimensions	103 x 42 x 28 mm ²
Operating temperature	-20 °C ~ +60 °C	Protection rating	IP20
Operating humidity	5 %-85 % RH	Certification	CE, RoHS
Max output current & power		PWM ≤2KHz: 17 A, 200 W/12 V; 400 W/24 V (default) PWM =4/7.8KHz: 13 A, 150 W/12 V; 300 W/24 V PWM =15.6KHz: 10 A, 120 W/12 V; 240 W/24 V	
PWM frequency		2 KHz (default), 500 Hz, 1 KHz, 4 KHz, 7.8 KHz, 15.6 KHz	

3. Product functionality

In the default setting, the control unit responds to all compatible remote controllers within range. Pairing is not required unless we want to assign the unit to a specific zone of the remote controller. For specific remote-control functions, see the respective user manual (e.g. 405206, 467118, 467120)

3.1. Control via rotary button

The button on the unit can be used to adjust brightness and the white color temperature depending on the selected mode. The mode can be switched with a short press of the button, and the current setting is shown on the display:

- For dimming, the letter “d” and a value 000–100 displayed
- For color temperature adjustment, the letter “C” and a value 000–100 displayed.
 - C000 = warm white
 - C100 = cold white

3.2. Control via remote controller

See the respective manual for the specific remote controller (e.g. 405206, 467118, 467120).

3.3. PWM frequency adjustment

The control unit allows PWM frequency adjustment using the rotary button or the remote controller. The selected frequency also affects the maximum output current and power (see the specification table). Be careful not to overload the unit. During adjustment, the display shows the following values: P005 = 500 Hz; P010 = 1 KHz; P020 = 2 KHz (default); P040 = 4 KHz; P078 = 7.8 KHz; P156 = 15.6 KHz.

To set the PWM frequency:

- Hold the rotary button on the unit for at least 5 seconds. To save the setting, press the button briefly once.
- On the rotary remote controller (405206), press buttons C and D 3 times in sequence (C→D→C→D→C→D). To save, press C briefly once.

The PWM frequency adjustment mode automatically ends after 1 minute without saving, unless the setting is saved manually.

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