

尺寸: 210*146mm

Manual Instruction

2.4GHz RF 2-in-1 LED Controller

Model No.: C21RF

2.4GHz RF Smart LED Controller is our newly developed LED controller series, including DIM, Dual White 2 kinds. It works with 2.4GHz RF remote controller and also works on Tuya Smart Life APP for smartphone control and 4G long distance control(Need Tuya 2.4G gateway).

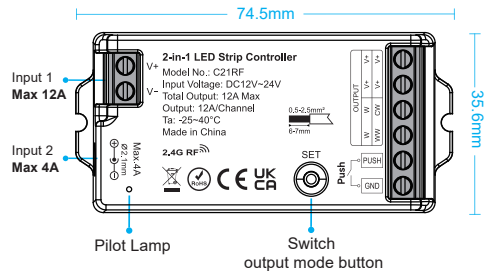
1.Features

- Color temperature 2700~6500K
- 2.4G RF wireless transmission technology
- Dim brightness
- Smartphone APP control (2.4GHz gateway is needed)
- Auto-transmitting & Synchronization
- Support third party voice control (2.4GHz gateway is needed)
- Overheating protection
- Remote control Control distance 30m
- Do not disturb function
- Group control
- PWM frequency adjustable

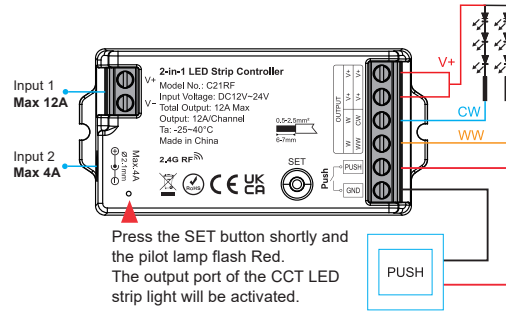
2. Parameters

Model No.: C21RF
 Input Voltage: DC12-24V(5.5*2.1mm)
 Output: 12A/Channel (Total 12A Max)
 Working Temperature(Ta): -25~40°C
 Support: 2.4GHz RF
 Size: 74.5*35.6*16.5mm
 Control Distance: 30M

Connection Diagram:
 Input Voltage=Output Voltage

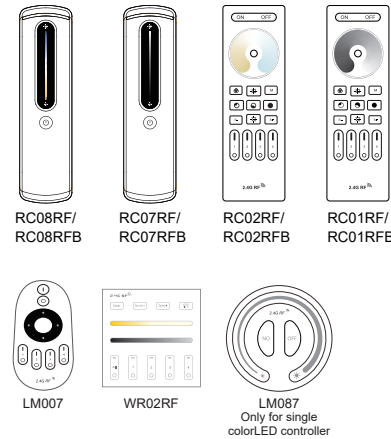


▼ Connect to CCT LED strip diagram



3. Compatible Remote Controller:

Compatible with these remote controls (Purchased separately). For more details, pls read the remote instruction.

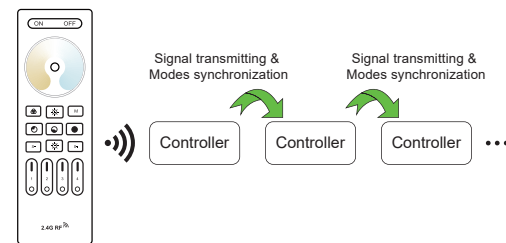


4. Signal transmitting

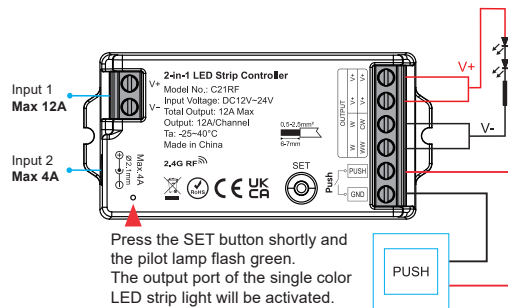
One strip controller can transmit the signals from the remote control to another controller within 30m, as long as there is a strip controller within 30m, the remote control distance can be limitless.

5. Mode synchronization

Different controllers can work synchronously when they are started at different times, controlled by the same remote, under same dynamic mode and with same speed.



▼ Connect to Single Color LED strip diagram



6. PWM Frequency Switching

Press and hold the SET button for more than 15 seconds:

Indicator light color	Pilot lamp	Pilot lamp
PWM frequency	When the green indicator flashes slowly, the controller switches to 2KHz high-frequency mode.	When the red indicator flashes slowly, the controller switches to 1KHz low-frequency mode (default frequency).

Linking with remote control

First way:

Press and hold the "SET" button for more than 3 seconds until the light flickers once, indicating that the controller has entered linking mode. Next, quickly press the any zone "ON" button on the remote control 3 times. If the light flickers 3 times in response, this confirms that the linking process was successful.

Second way:

When the light is on, turn it off and wait 10 seconds, then turn it back on. Quickly press any zone "ON" button on the remote 3 times within 5 seconds. The light will flash 3 times, indicating a successful pairing.

Unlinking with remote control

First way:

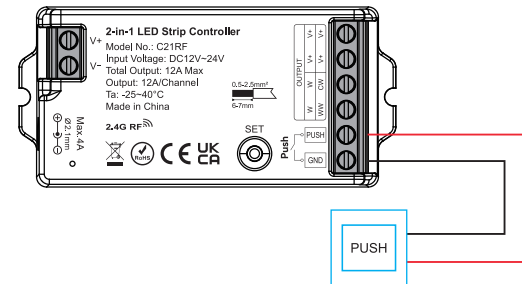
Press and hold the "SET" button for over 3 seconds until the light flickers once. Then, press the linked zone "ON" button on the remote 5 times within 5 seconds. If the light flickers slowly 10 times, the unlinking is successful.

Second way:

When the light is on, turn it off and wait 10 seconds, then turn it back on. Quickly press linked zone "ON" button on the remote 5 times within 5 seconds. The light will flash 10 times, indicating a successful unlinking.

7. PUSH Switch instruction

1. PUSH Switch Connection Diagram



2. PUSH Switch Function

2.1 Dimming Function:

- Short press PUSH Switch: Turn ON or Turn OFF the light.
- Long press PUSH Switch: Dimming the brightness smoothly. Long press Push Dimmer, then loosen the Push Dimmer, then long press again, switch increase brightness or decrease brightness

2.2 Active Link/Unlink mode to remote:

Short press Push Switch over 4 times within 5 second, make the device into Link/Unlink Mode. The Link/Unlink will last for 5 seconds.

2.3 Smart Link to APP

Long press Push Switch for over 15 seconds, under light OFF mode.

Do Not Disturb

What is Do Not Disturb: When switching off the power, then switching on, the lights keep off without disturbing the rest of users.

Application to use Do not disturbing function:

- Widely use on the area where there is power failure frequently to save energy.
- When users go outside for long time, set up Do not disturb to avoid there is short circuit during this time.

Set up Do Not Disturb:

When the lights ON and not under dynamic mode, long press linked remote S+ button for 10 seconds, when the white lights blink once, set up the Do not disturb successfully.

Note:

- Do not Disturb will be available when the light is under OFF mode by remote or APP.
- When users set up Do not Disturb, the lights need to be switched OFF-ON twice within 5 seconds or use linked remote and APP to turn on the lights normally.

Delete Do Not Disturb:

When the lights ON and not under dynamic mode, long press linked remote S- button for 10 seconds, when the white lights blink 3 times, delete the Do not disturb successfully.

Note:

- This controller is set by default to enable the "Do Not Disturb" function.
- After delete the Do Not Disturb, the lights will be ON when you switch OFF, then switch ON the power.
- Please use our RC01RF or RC02RF remote or wall remote to set up or delete Do Not Disturb.

Attention

- Please check whether the input voltage of the constant voltage power supply is in accordance with the controller, and please check the connection of both the cathode and anode.
- The working Voltage is DC12~24V, the controller will be broken if the voltage is higher than 24V.
- Non-professional user cannot dismantle the controller directly, otherwise, it may cause fire and electric shock.
- The working temperature(Ta) is -25~40°C; Do not use the device to direct sunlight, moist and other high temperature area.
- Please do not use controller around the mental area and high magnetic field, otherwise, it will badly affect the control distance.
- When the device load to 12A, wire diameter must be over 1.5mm².
- When the device load over 10A, the connecting cable must be shorter than 40cm long from DC port to LED strip.
- Please install the device on good dissipation area.
- The light automatically turns off during operation and then automatically turns back on after a while. This indicates that the overheating protection has been triggered. Please reduce the load power.

Controller can not use in humid area



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