Manual Instruction

2.4GHz RF LED Controller Series
SKU: 6201/6202/6203/6204/6205

2.4GHz RF Smart LED Controller is our newly developed LED controller series, including DIM, Dual White, RGB, RGBW, RGBCCT 5 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).
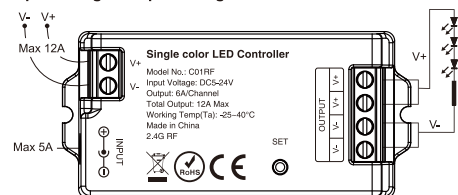
1. Features

- 16 Millions of colors to choose
- Color temperature 2700~6500K
- Dim brightness / Saturation
- Auto-transmitting & Synchronization
- **PWM** Frequency Switching
- Do not disturb function
- **2.4G** RF wireless transmission technology
- Remote control Control distance 30m
- Smartphone APP control (2.4GHz gateway is need)
- Support third party voice control (2.4GHz gateway is need)

2. Parameters

Single Color LED Controller
Model No.:C01RF
Input Voltage: DC5-24V(5.5*2.1mm)
Output: 6A/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

Single color LED Controller
Model No.: C01RF
Input Voltage: DC5-24V
Output: 6A/Channel
Total Output: 12A Max
Working Temp(Ta): -25~40°C
Made in China
2.4G RF
SET
Max 12A
Max 5A
V- V+
V+
V-
V+
V-

Dual White LED Controller
Model No.:C02RF
Input Voltage: DC5-24V(5.5*2.1mm)
Output: 6A/Channel; Total 12A Max
Working Temperature(Ta): -25~40°C
Support: 2.4GHz RF
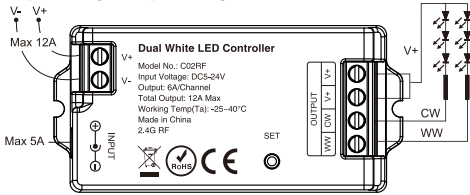Size: 74.5*35.6*16.5mm
Control Distance: 30M

Connection Diagram:
Input Voltage=Output Voltage

Dual White LED Controller
Model No.: C02RF
Input Voltage: DC5-24V
Output: 6A/Channel
Total Output: 12A Max
Working Temp(Ta): -25~40°C
Made in China
2.4G RF
SET
Max 12A
Max 5A
CW
WW

RGB LED Controller
Model No.:C03RF
Input Voltage: DC5-24V(5.5*2.1mm)
Output: 6A/Channel; Total 12A Max
Working Temperature(Ta): -25~40°C
Support: 2.4GHz RF
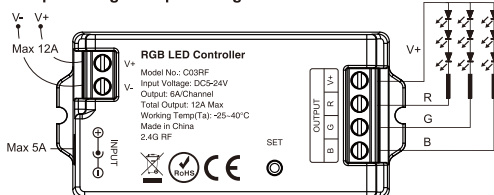Size: 74.5*35.6*16.5mm
Control Distance: 30M

Connection Diagram:
Input Voltage=Output Voltage

RGB LED Controller
Model No.: C03RF
Input Voltage: DC5-24V
Output: 6A/Channel
Total Output: 12A Max
Working Temp(Ta): -25~40°C
Made in China
2.4G RF
SET
Max 12A
Max 5A
R G B

RGBW LED Controller
Model No.:C04RF
Input Voltage: DC5-24V(5.5*2.1mm)
Output: 6A/Channel; Total 12A Max
Working Temperature(Ta): -25~40°C
Support: 2.4GHz RF
Size: 74.5*35.6*16.5mm
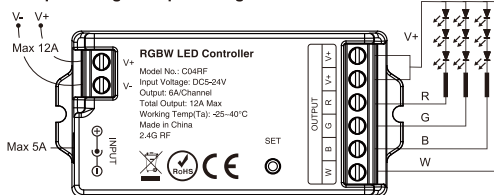Control Distance: 30M

Connection Diagram:
Input Voltage=Output Voltage

RGBW LED Controller
Model No.: C04RF
Input Voltage: DC5-24V
Output: 6A/Channel
Total Output: 12A Max
Working Temp(Ta): -25~40°C
Made in China
2.4G RF
SET
Max 12A
Max 5A
R G B W

RGBCCT LED Controller
Model No.:C05RF
Input Voltage: DC5-24V(5.5*2.1mm)
Output: 6A/Channel; Total 12A Max
Working Temperature(Ta): -25~40°C
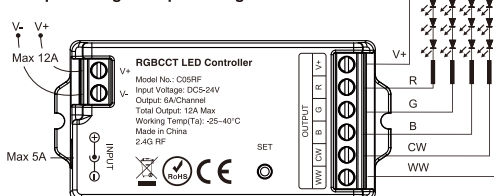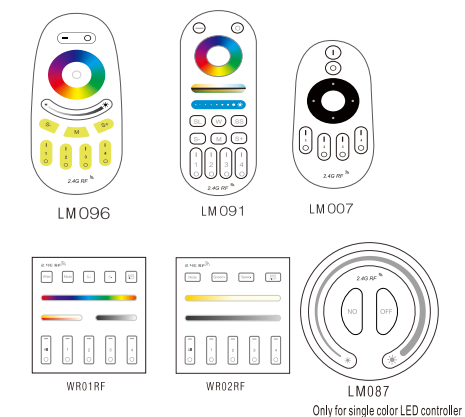Support: 2.4GHz RF
Size: 74.5*35.6*16.5mm
Control Distance: 30M

Connection Diagram:
Input Voltage=Output Voltage

RGBCCT LED Controller
Model No.: C05RF
Input Voltage: DC5-24V
Output: 6A/Channel
Total Output: 12A Max
Working Temp(Ta): -25~40°C
Made in China
2.4G RF
SET
Max 12A
Max 5A
R G B CW WW

Compatible Remote Controller:

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

LM096   LM091   LM007

WR01RF   WR02RF   LM087
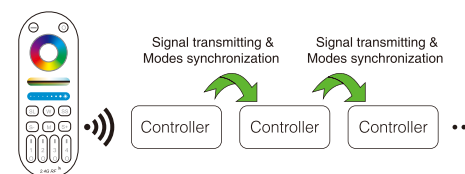Only for single color LED controller

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.

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.

Signal transmitting & Modes synchronization   Signal transmitting & Modes synchronization
Controller   Controller   Controller ...

PWM Frequency Switching

Switch to Low Frequency:
Power on the lights for over 10 seconds, Long press the Linked remote Zone ON button for 10 seconds, When the lights blink 3 times, switch to low frequency.

Switch to High Frequency:
Power on the lights for over 10 seconds, Long press the linked remote Zone ON button for 10 seconds, When the lights blink 10 timmes, switch to high frequency.

Note:
1. Application to switch PWM frequency: to avoid the noise when using different power supply.
2. Use LM007(for DIM and Dual White controller) or LM091(for RGB,RGBW and RGBCCT controller) remote to switch the Frequency;
3. The default frequency is high frequency.
4. When users switch the low frequency, it may cause the lights flickering.

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:
1.Widely use on the area where there is power failure frequently to save energy.
2.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 5 seconds, when the white lights blink once, set up the Do not disturb successfully.

Note:
1. Do not Disturb will be available when the light is under OFF mode by remote or APP.
2. 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 5 seconds, when the white lights blink 3 times, delete the Do not disturb successfully.

Note:
1. After delete the Do Not Disturb, the lights will be ON when you switch OFF, then switch ON the power.
2. The default mode for the device is without Do not Disturb, users must follow above steps to set up Do Not Disturb according to the real application.
3. Please use our LM091 remote or wall remote to set up or delete Do Not Disturb.

Attention

1. 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.
2. The working Voltage is DC5~24V,the controller will be broken if the voltage is higher than 24V.
3. Non-professional user cannot dismantle the controller directly, otherwise, it may cause fire and electric shock.
4. The working temperature(Ta) is-25~40℃ ; Do not use the device to direct sunlight, moist and other high temperature area.
5. Please do not use controller around the mental area and high magnetic field, otherwise,it will badly affect the control distance.
6.When the device load to 12A,wire diameter must be over 1.5mm².
7.When the device load over 10A , the connecting cable must be shorter than 40cm long from DC port to LED strip.

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