Matter Over WiFi DIM+ RF 4 in 1 LED Controller
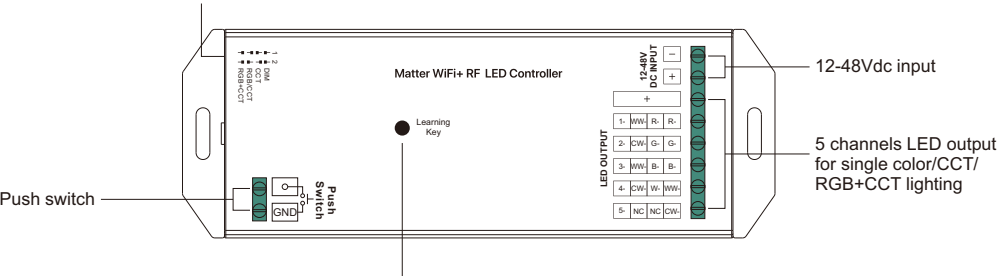
✳ matter CE 🍃RoHS COMPLIANT

Important: *Read All Instructions Prior to Installation*

Function introduction

Dip switch to set the device type: (In Matter platform, it will always show as DIM device type, if device type is changed to other mode, it can work normally through RF remote, but via Matter platform, only support adjust brightness).

⬇⬇	DIM	For single color LED strip	Dim and on/off
⬇⬆	CCT	For CCT color LED strip	CCT color, dim, on/off
⬆⬇	RGB/CCT	For RGB+CCT color LED strip	RGB/CCT mutual exclusive mode
⬆⬆	RGB+CCT	For RGB+CCT color LED strip	RGB/CCT independent mode

Push switch

Matter WiFi+ RF LED Controller

Learning Key

Push Switch
GND

12-48V DC INPUT

LED OUTPUT
1- WW- R- R-
2- CW- G- G-
3- WW B- B-
4- CW- W- WW-
5- NC NC CW-

12-48Vdc input

5 channels LED output for single color/CCT/RGB+CCT lighting

Learning Key for Matter network and RF remote:

Operation	Controller Mode	LED Strip Status
Short press once	Enter RF pairing mode	Flash once when successful pairing
Long press over 5s	Delete the RF paired remote	Flash 5 times when successful delete
Short press 5 times	Enter Matter pairing mode or quit from the previous Matter platform	Flash 3 times

Product Data

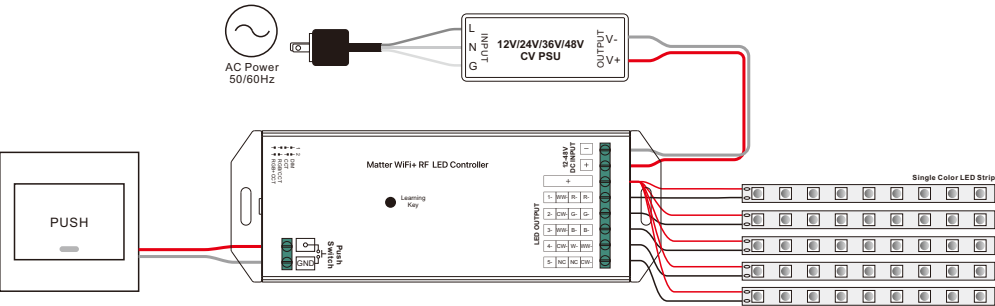| Input Voltage	Output Current	Output Power	Size(LxWxH)	Ambient Temperature	Max. Casing Temperature
12-48VDC	15A Max.@48V, 20A Max.@12-24V	720W@48V, 480W@24V, 240W@12V	137.5x48.4x22.3mm	-25℃ ~ +50℃	75℃

Product Features

• Matter over WiFi single color LED controller, Matter certified device
• Matter + RF 2 control modes in 1
• App and voice control through Matter platform (e.g. Apple Home, Amazon Alexa, Google Home)
• Controls DIM, CCT, RGB + CCT LED strip through RF remote
• Fully compatible with universal Matter ecosystems from different manufacturers
• Easy commissioning and pairing by scanning the QR code
• Remote control through RF remotes or wall switches or kinetic self power switch
• Over temperature protection
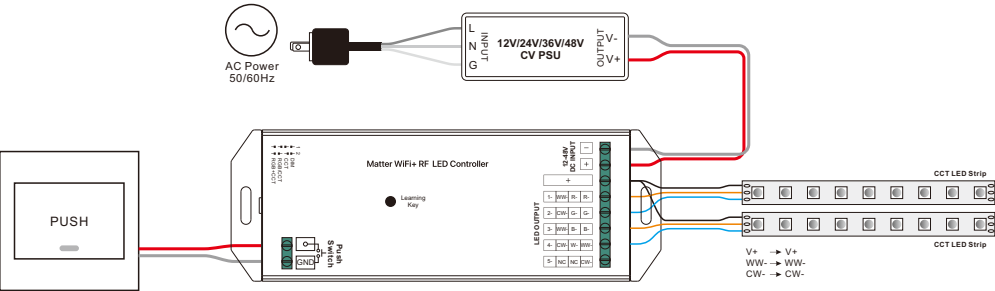• Waterproof grade: IP20

Safety & Warnings

• DO NOT install with power applied to device.
• DO NOT expose the device to moisture.

Wiring Diagram
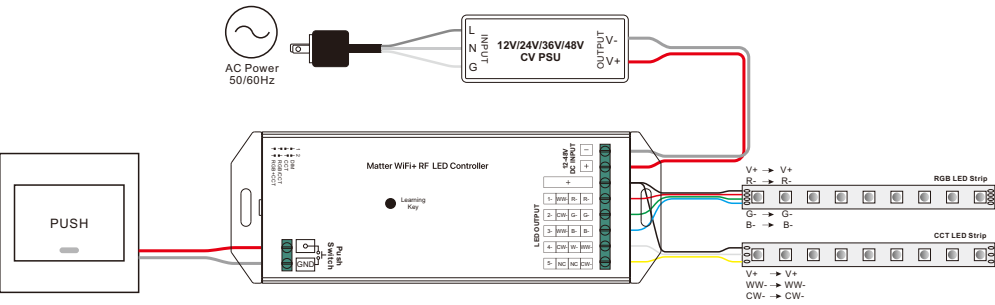
DIM Mode: Work with Matter and RF remote

CCT Mode: Work with Matter and RF remote

RGB/CCT mode / RGB+CCT mode: Work with RF remote

⬆⬇	RGB/CCT

RGB/CCT Mutual Exclusive Mode
In this mode, the RGB and CCT channels operate exclusively.
• When the RGB channel is turned on, the CCT channel will be automatically turned off.
• When the CCT channel is turned on, the RGB channel will be automatically turned off.
This mode is suitable for applications where RGB and CCT lighting should not be active simultaneously.
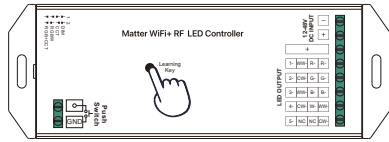
⬆⬆	RGB+CCT

RGB/CCT Independent Mode
In this mode, the RGB and CCT channels operate independently.
• Adjusting the RGB channel will not affect the CCT channel.
• Adjusting the CCT channel will not affect the RGB channel.
This mode allows RGB and CCT lighting to work simultaneously or be controlled separately.

Operation

Do wiring according to connection diagram.

1. Add the device to a Matter platform

1) Short press the Learning Key 5 times

2) Open Matter APP and scan the QR code on this devices, then follow the instructions of the platform and add the devices step by step.
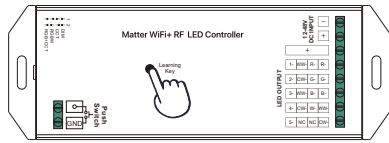
Notice: Because the Matter platform does not allow multiple device types to exist simultaneously within one device, no matter which device type is selected through the dip switch, it will always be displayed as the RGB+CCT type in the Matter platform. However, through the remote control and platform control, it will be normal.

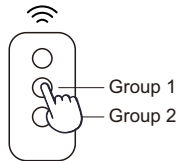### 2. Quit the Matter network and then re-enter the Matter network pairing mode.

Method 1: Delete the device through matter platform, it will re-enter Matter network pairing mode auto.
Method 2: Short press the Learning Key 5 times, it will quit the Matter platform and re-enter Matter network pairing mode auto.

3. Pair with a RF 2.4G remote

Group 1
Group 2
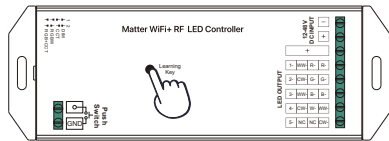
1) Short press the Learning Key 1 time

2) If the remote supports multiple group, click a group button which you want to control this controller.
The controller will be paired to this group.

3) If the remote only supports 1 group, click any button of the remote, The controller will be paired to this remote.

4. Delete the paired remote

Long press the Learning Key for over 5s

PUSH DIM:

While connected with PUSH LV, click the button to switch ON/OFF lights. Press and hold down the button to increase/decrease light intensity.

Product Dimension

137.5 mm
128 mm
48.4 mm
118 mm
22.3 mm