# RGBW/RGB/CCT/Dimming 4 Channel LED RF Controller

## Model No.: C4(150-500mA) / C4(350-1200mA)

4 Channels/Multiple current/Push Dim/Wireless remote control/Auto-transmitting/Synchronize



FC C CE ROHS EMC LVD RED

## **Features**

- Set as single color, dual color, RGB or RGBW controller by DIP switch.
- . DC to DC constant current output, multiple output current settings.
- Match with RF 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB/RGBW light, built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Fade in and out effect selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

## Technical Parameters

Input and Output		
Input voltage	12-48VDC	
Output voltage	4 x (10-42)VDC	
Output current	4CH, 150-500mA or 350-1200mA/CH	
Output power	4 x (1.5-21)W (150-500mA) 4 x (3.5-50.4)W (350-1200mA)	
Output type	Constant current	

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc:+85°C
IP rating	IP20

Warranty and Protection			
Warranty	5 years		
Protection	Reverse Polarity Short circuit		

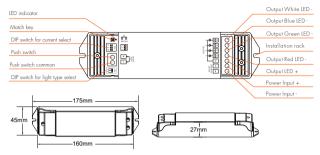
Dimming data	
Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Logarithmic

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Weight	
Netweight	0.120kg
Gross weight	0.140kg

### Mechanical Structures and Installations

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### LED Current Selection

DIP Switch

(150-500mA)

Note: Please select the correct current through the DIP switch on the PCB board when the 888

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AC100-240V

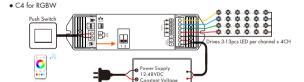
ne pov	ver is oii.	1 2 3	
198	008	000	
0mA	450mA	500mA	169
42V	10-42V	10-42V	ON OFF

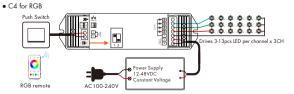
DIPS	witch	999	998	989	966	899	888	889	888	
	Output Current	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA	10
C4 (350-1200mA)	Output Voltage	10-42V	10-42V	10-42V	10-42V	10-42V	10-42V	10-42V	10-42V	ON OFF
(330-1200111A)	Output Power/CH	3.5-14.7W	5-21W	6-25.2W	7-29.4W	8-33.6W	9-37.8W	10.5-44.1W	12-50.4W	1

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# Wiring Diagram

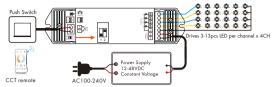
RGBW remote



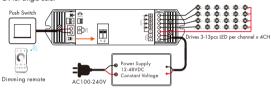


Page 1 User Manual Ver 2.0.0

C4 for dual color



C4 for single color



#### Note

- The LED quantity at each channel can be different, the controller could auto check and output a proper voltage to each channel according to its LED quantities.
- 2. The controller works on buck made, the voltage of power supply should be greater than the total voltage of the seried LEDs.

#### Push Dim

Click		ON/OFF		
Single color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
	Long press(>1s) from OFF	Dimming UP/DOWN		
Long press(>1s) from ON		Dimming UP/DOWN		
	Click	ON/OFF		
Dual Color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
Dodi Coloi	Long press(>1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)		
	Long press(>1s) from ON	Dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change from color mode to white mode (RGB mixed) and vice-versa		
RGB	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode dimming UP/DOWN		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on white mode dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change between color mode, white mode (W channel) and color+W mode		
RGBW	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode or color+W mode, W dimming UP/DOWN		
	Long press(> 1s) from ON	If on color mode start/stop color rotation; If on white mode or color+W mode, W dimming UP/DOWN		

1 flash/s means 6 minutes color rotation.

### Color rotation:

We can select 4 rotation speed:

2 flash/s means 1 minute color rotation.

10 flash/s means 6 seconds color rotation, 5 flash/s means 30 seconds color rotation,

## Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

### Use the controller's Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.

The LED indicator fast flash a few times means match is successful

Delete.

Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted

#### Use Power Restart

Match:

Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 5 times means all matched remotes were deleted.

## RGB/RGBW dynamic mode list

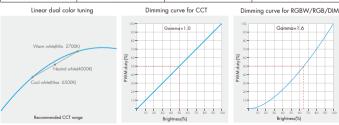
No.	o. Name		Name	
1	1 RGB jump		RGB fade in and out	
2	2 RGB smooth		Red fade in and out	
3	3 6 color jump		Green fade in and out	
4	4 6 color smooth		Blue fade in and out	
5	Yellow cyan purple smooth		White fade in and out	

## Dual color control

CH1,CH3=Warm white LED CH2.CH4=Cool white LED

Each channel can supply up to 10W(@350mA, 30V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=10W	CH1=5W,CH2=5W	CH1=10W,CH2=0W
	CH3=0W,CH4=10W	CH3=5W,CH4=5W	CH3=10W,CH4=0W



## Fade in and Fade out Setting

Long press match key 5s, then short press match key 3 times,
The lighting effect will be set to the fade in and fade out in 3s, the indicator light of LED controller blinks 3 times.
Long areas match key 10s, restore factory default parameter, the light on/off time restores to 0.5s.