# 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 (E 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 Outp	ut and Output		
Input voltage	12-48VDC		
Output voltage	4 x (3-45)VDC		
Output current	4CH, 150-500mA or 350-1200mA/Ch		
Output power	4 x (0.45-22.5)W (150-500mA) 4 x (1.05-54)W (350-1200mA)		
Outnut type	Constant surrent		

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

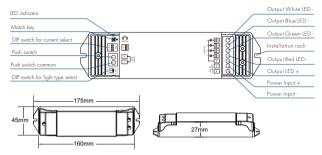
Warranty and Protection				
Warranty	5 years			
Protection	Reverse Polarity Short circuit			

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	
Net weight	0.120kg
Gross weight	0.140kg

#### Mechanical Structures and Installations



### LED Current Selection

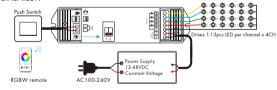
Note: Please select the correct current through the DIP switch on the PCB board when the power is off.

0	В	В	
ī	2	3	

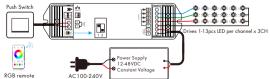
DIPS	witch	999	998	959	988	899	898	889	888	
C4	Output Current	150mA	200mA	200mA 250mA 300mA 350mA 400mA 450mA 500mA	500mA	189				
(150-500mA)	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	ON OFF
(	Output Power/CH	0.45-6.75W	0.6-9W	0.75-11.25W	0.9-13.5W	1.05-15.75W	1.2-18W	1.35-20.25W	1.5-22.5W	1
										-
DIPS	witch		998	868	800	899	888	008	000	
	Output Current	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA	
C4 (350-1200mA)	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	ON OFF
	Output Power/CH	1.05-15.75W	1.5-22.5W	1.8-27W	2.1-31.5W	2.4-36W	2.7-40.5W	3.15-47.25W	3.6-54W	1

## Wiring Diagram



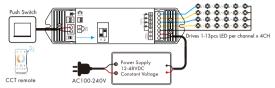




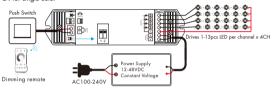


User Manual Ver 2.0.1

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 Color	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		

#### Color rotation:

We can select 4 rotation speed:

- 10 flash/s means 6 seconds color rotation, 5 flash/s means 30 seconds color rotation,
- 2 flash/s means 1 minute color rotation, 1 flash/s means 6 minutes 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) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

## RGB/RGBW dynamic mode list

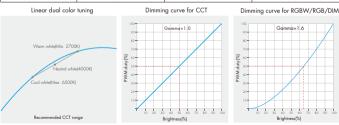
No.	o. Name		Name
1	1 RGB jump		RGB fade in and out
2	RGB smooth	RGB smooth 7 Red	
3	3 6 color jump		Green fade in and out
4	4 6 color smooth		Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

### 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 factor default pagameter; the light on/off time restores to 0.5s.