

RGBW/RGB/Dimming 4 Channel LED RF Controller

SKU: 6343

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

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

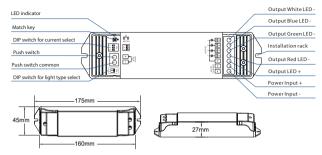
Warranty and Protection			
Warranty	5 years		
Protection	Reverse Polarity Short circuit		

Dimming data				
Input signal	RF 2.4GHz + Push Dim			
Control distance	30m (Barrier-free space)			
Dimminggray scale	4096 (2^12) levels			
Dimmingrange	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	0.120 kg			

0.140 kg

Gross weight

Mechanical Structures and Installations



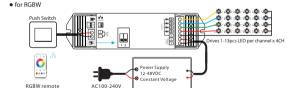
LED Current Selection

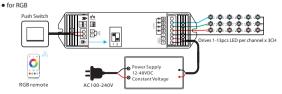
Note: Please select the correct current through the DIP switch on the PCB board when the power is off

ON	
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Note: Please select the correct current through the DIP switch on the PCB board when the power is off.										
DIPS	witch	999	998	959	988	899	898	889	668	
	Output Current	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	
(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	7
										_
DIPS	witch	999	998	868	800	899	888	009	000	
	Output Current	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA	
(350-1200mA)	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	ON OFF
(330-120011174)	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	

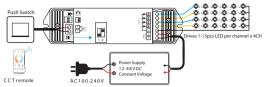
Wiring Diagram



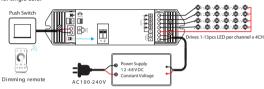


User Manual Ver 2.0.1

• for dual color



for single color



Note:

- 1.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 mode, 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 %(nightlight) and vice-versa		
Single color	Long press(>1s) from OFF	Dimming UP/DOWN		
	Long press(>1s) from ON	Dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Turn on at 100 % or 10 %(nightlight) and vice-versa		
Dual Color	Long press(>1s) from OFF	Color temperature UP/DOWN (turn of fand 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/of f 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

Matc

Switch off the power, then switch on power, repeat again. Immediately shot 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 shot 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.

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RGB/ RGBW dynamic mode list

No.	N a me	No.	N a me
1	RGB j ump	6	RGB fa de i n a nd o ut
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fa de i n and o ut
4	6 color smooth	9	Blue fa de i n a nd o ut
5	Yellow c yan purples mooth	10	White fade in and out

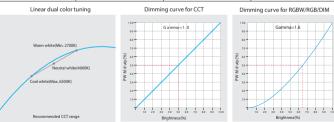
Dual color control

CH1,CH3=Wa rm white LED

CH2, CH4=Cool white LED

Each channel can supply up to 1 0 W (@350 mA, 3 0 V) and white balance can be controlled a s such:

Color temperature Cool white		Neutral white	W arm white	
Power distribution	CH1=0W ,CH2=10W CH3=0W ,CH4=10W	CH1=5W ,CH2=5W CH3=5W ,CH4=5W	CH1=10W ,CH2=0W 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 press match key 10s, restore factory default parameter, the light on/of f time restores to 0.5s.

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