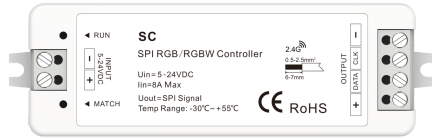


SPI RGB/RGBW LED RF Controller

Model No.: SC

Compatible with 42 kinds IC/Max 1024 pixels/Wireless remote control



FC CE RoHS 97°C LVD RED

Features

- Mini-style multi-pixel RGB RF LED controller with SPI output, match with RF 2.4G RGB/RGBW remote control.
- Compatible with 42 kinds digital IC RGB or RGBW LED strip, IC type and R/G/B order can be set.
Compatible ICs: TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, SK6813, UCS2903, UCS2909, UCS2912, WS2811, WS2812, WS2813, WS2815, TM1829, TLS3001, TLS3002, GWV6205, MB16120, TM1814B[RGBV], SK6812[RGBV], WS2813[RGBV], WS2814[RGBV], UCS8904B[RGBV], LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813, SK9822, TM1914A, GS8206, GS8208, UCS2904, SM16804, SM16825.
- 32 kinds dynamic mode, include horse-race, chase, flow, trail or gradual change style.

Technical Parameters

Input and Output	
Input voltage	5-24VDC
Power consumption	1W
Input signal	RF 2.4GHz
Output signal	SPI(TTL)
Dynamic mode	32
Control dots	Max 1024 pixels

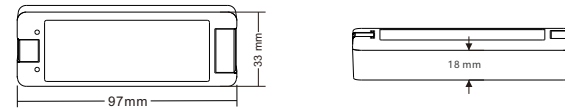
Safety and EMC	
EMC standard [EMC]	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard [LVD]	EN 62368-1:2020+A11:2020
Certification	CE, EMC, LVD, RED

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +65°C
IP rating	IP20

Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

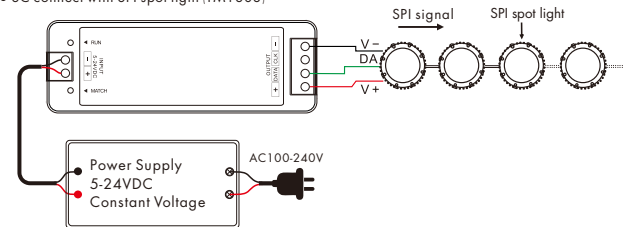
Weight	
Net weight	0.038kg
Gross weight	0.049kg

Mechanical Structures and Installations

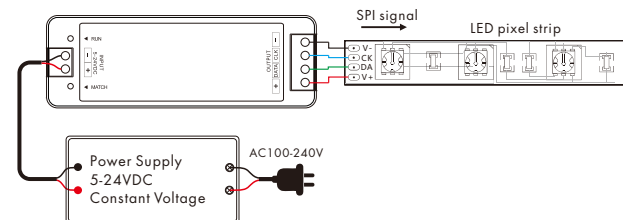


Wiring Diagram

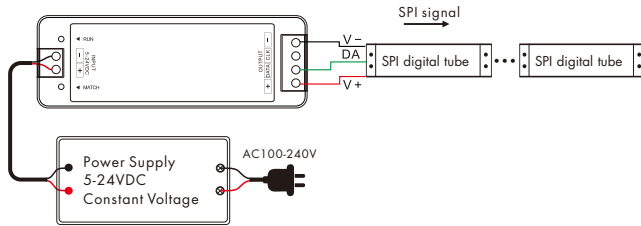
- SC connect with SPI spot light (TM1803)



- SC connect with SPI pixel strip (LPD6803)



- SC connect with SPI Digital light tube (TM1809)



Note:

- If the SPI LED pixel strip is single-wire control, the DATA and CLK output is same, we can connect up to 2 LED strips.

Use R9 remote set SPI digital LED strip

- Set LED strip length [Pixel number(8~1024)]. * + 3 number + * for example:
 032, set pixel number to 32.
 600, set pixel number to 600.
 1024, set pixel number to 1024.
- Set LED strip chip type. * + 2 number + *
 11: TM1803
 12: TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, SK6813, UCS2903, UCS2909, UCS2912, WS2811, WS2812, WS2813, WS2815
 13: TM1829
 14: TLS3001, TLS3002
 15: GW6205
 16: MBI6120
 17: TM1814B(RGBW)
 18: SK6812(RGBW), WS2813(RGBW), WS2814(RGBW)
 19: UCS8904B(RGBW)
 21: LPD6803, LPD1101, D705, UCS6909, UCS6912
 22: LPD8803, LPD8806
 23: WS2801, WS2803
 24: P9813
 25: SK9822
 31: TM1914A
 32: GS8206, GS8208
 33: UCS2904
 34: SM16804
 35: SM16825
- Set LED strip RGB order. * + 1 number + *
 1: RGB, *2*: RBG, *3*: GRB, *4*: GBR, *5*: BRG, *6*: BGR.

Compatible IC type

No.	IC type	Output signal
C11	TM1803	DATA
C12	TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, SK6813, UCS2903, UCS2909, UCS2912, WS2811, WS2812, WS2813, WS2815	DATA
C13	TM1829	DATA
C14	TLS3001, TLS3002	DATA
C15	GW6205	DATA
C16	MBI6120	DATA
C17	TM1814B(RGBW)	DATA
C18	SK6812(RGBW), WS2813(RGBW), WS2814(RGBW)	DATA
C19	UCS8904B(RGBW)	DATA
C21	LPD6803, LPD1101, D705, UCS6909, UCS6912	DATA, CLK
C22	LPD8803, LPD8806	DATA, CLK
C23	WS2801, WS2803	DATA, CLK
C24	P9813	DATA, CLK
C25	SK9822	DATA, CLK
C31	TM1914A	DATA
C32	GS8206, GS8208	DATA
C33	UCS2904	DATA
C34	SM16804	DATA
C35	SM16825	DATA

Match Remote Control

Match:

Short press match key, immediately press on/off key of the remote.

Delete:

Press and hold match key for 5s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Dynamic mode list

No.	Name	No.	Name	No.	Name
P01	Red horse race white ground	P12	Blue White chase	P23	Purple float
P02	Green horse race white ground	P13	Green Cyan chase	P24	RGBW float
P03	Blue horse race white ground	P14	RGB chase	P25	Red Yellow float
P04	Yellow horse race blue ground	P15	7 color chase	P26	Green Cyan float
P05	Cyan horse race blue ground	P16	Blue meteor	P27	Blue Purple float
P06	Purple horse race blue ground	P17	Purple meteor	P28	Blue White float
P07	7 color multi horse race	P18	White meteor	P29	6 color float
P08	7 color horse race close + open	P19	7 color meteor	P30	6 color smooth sectionally
P09	7 color multi horse race close + open	P20	Red float	P31	7 color jump sectionally
P10	7 color scan close + open	P21	Green float	P32	7 color strobe sectionally
P11	7 color multiscan close + open	P22	Blue float		