

General

Wireless
104
58
9
White
Plastic
Surface mounted
42
5mm
2.5mm2

Electronics

Input Domain	DC
Input Voltage	5 ~ 24V DC
Power Supply	N/A
LED Outputs	1

Lighting

Color Range	RGBW
Odioi Hange	HODVV

Control

Output Signal	SPI(TTL)
Control	Manual
Dimming Range	0~100%
Remote Distance	30m
Functions	programmable

Protection

Reverse Polarity	Yes
LED Output Short	Yes
Overload	Yes
Restart after Protection	Yes

Environmental

Operating Temperature	-20 ~ +55 °C
Ingress Protection	IP20
Battery	1x CR2032

CE FC IP20 3 year warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



oneeighty one.com



SPI-16S Milli LED Fantastic Controller

RF WIRELESS

3V (battery CR2032)

L104×W58×H9(mm)

RF 2.4GHz

16 kinds

42g

Working Temperature: -30°C~55°C



SPI-16S is a Mini LED pixel controller, equipped with RF remote M16S, almost able to control all IC-driven LED lights. Compact and powerful, various built-in changing effects and customized scene modes can bring you fantastic color!

By RF remote control M16S, you can select from a variety of dynamic lighting effects, set controlled pixels quantity, adjust the changing speed and brightness, change the lighting moving direction, adjust RGB sequence, select the IC type, store and play customized scene etc.

M16S Remote:

Working Voltage:

Wireless Signal:

Changing Mode:

Dimensions:

Weight(N.W.):

1. Product parameter:

SPI-16S Controlle	r:
-------------------	----

Power Input: 5~24Vdc
Output: SPI
Wireless Signal: RF 2.4GHz
Working Temperature: -30°C~55°C
Pixel Range: 8~1020px

Dimensions: L135×W30×H20(mm)

Weight(N.W.): 52q

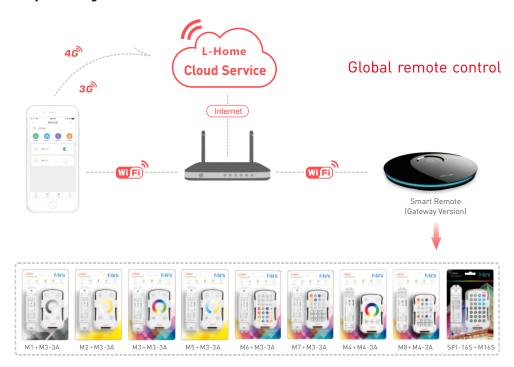
Compatible driving IC: any kinds, can be customized also.

Package size: L132×W198×H22(mm) Total weight(G.W.): 145g

★ Connect power supply to pixel LEDs separately, in case of overvoltage, overcurrent to the receiver. Receiver only supply a signal to the LEDs.

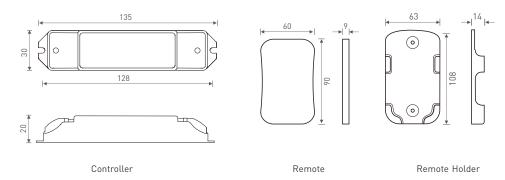


2. System diagram:



3. Product dimension:

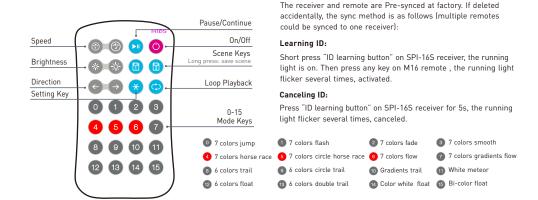
Unit: mm



The Learning ID Method:



4. The remote instruction:



Other Setting Instructions of Remote

- 1. Loop playback: Short press 😵 key, then continuous press any 0-15 numeric keys, last press 😊 key to finish. Controller will play cycle the corresponding mode of the numeric key.
- 2. After the remote being paired with the controller, the IC model, pixel ranges and RGB sequence can be set by the remote.

By factory default, controller works with TM1809IC pixel light. If work with different IC model, please setting follow below instructions. This controller is compatible with following IC models:

TM1803/TM1804/TM1809/TM1812/TM1814/TM1914/TM1914A/UCS1903/UCS1909/ UCS1912/UCS2903/UCS2904B/U CS2909/UCS5603A/UCS6909/UCS6912/WS2801/WS2803/WS2811/WS2812/WS2812B/WS2821/APA102/AP A104/KL590/KL592D/LPD6803/LPD1101/LPD8803/LPD8806/P9813/TLS3001/TLS3002/P943/SK6812(RGB)/GS8206 (BGR)/GS8208/SM16703 in factory default.

Manipulate table for choosing ICs, RGB order or pixel No.

IC Type	Setting e.g.
TM1809	*1809*
LPD6803	*6803*
KL590	*0590*
KL592D	*0592*
APA102	*0102*
	0000

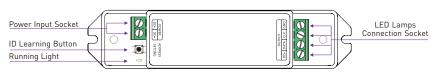
Pixel	Setting e.g.
8	**008
16	**016
100	**100
160	**160
1020	**1020
Range: 8-1020 pixels	

RGB Order	Setting
RGB	*123*
RBG	*132*
GRB	*213*
GBR	*231*
BRG	*312*
BGR	*321*

[Attn]: The running light of SPI-16S controller flashes 2s means set completed.

When setting IC type, pixel number and RGB order, select multiple keys at uniformed speed. Not too fast.

5. Terminal description:



3

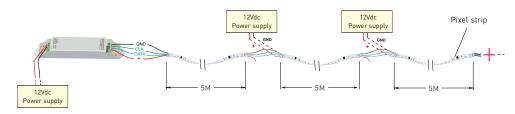


6. Wiring diagram:

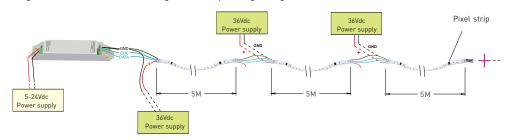


LED pixel strip wiring diagram:

a. Conventional connection method.



b. Light fixtures and controller using different operating voltages.



* No further notice if any changes in the manual.

Product function depends on the goods.

Please feel free to contact your supplier if any question.

www.ltech-led.com 💪 Update Time: 2020.08.20