

Sperll SP53XE LED Controller Instructions

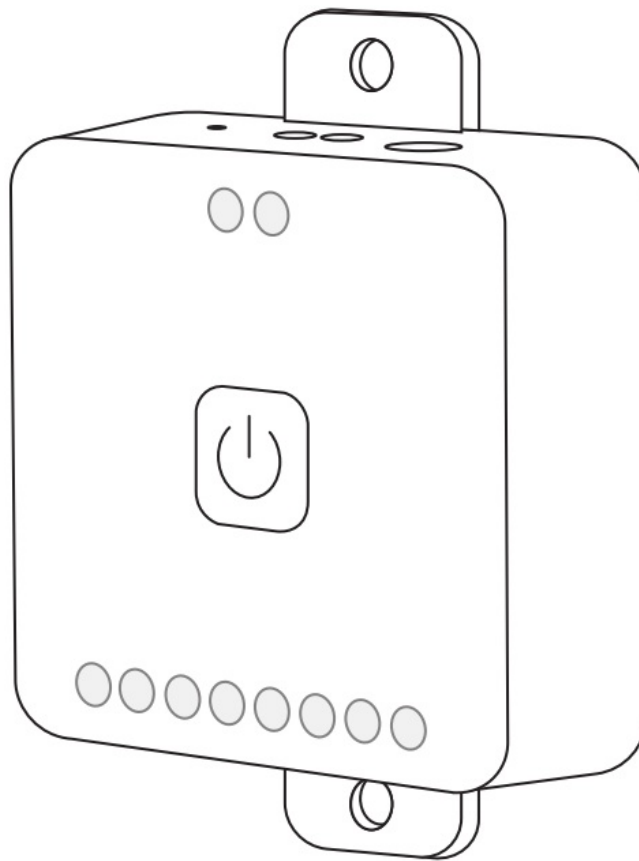
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Sperll SP53XE LED Controller



Product Information

Specifications

- **Model:** [Insert Model Number]
- **Compatibility:** iOS and Android devices
- **Connectivity:** Bluetooth 4.0 or higher
- **Power Source:** Rechargeable Lithium-ion battery
- **Dimensions:** [Insert Dimensions]
- **Weight:** [Insert Weight]

Product Usage Instructions

1. **FCC Statement:** Ensure compliance with FCC regulations when using the device.
2. **Download The APP:** Download the companion app from the App Store or Google Play Store to access additional features.
3. **Electronic Manual:** Refer to the electronic manual for detailed instructions on setup, usage, and troubleshooting.

Frequently Asked Questions (FAQ)

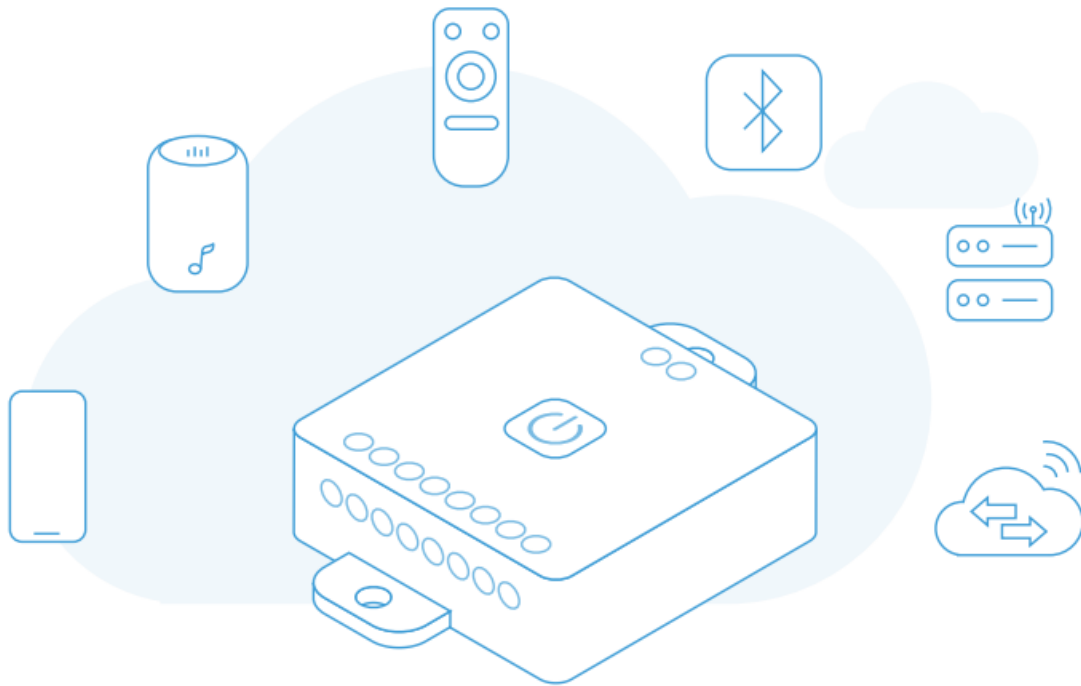
- **How do I charge the device?**
To charge the device, use the provided charging cable and connect it to a power source.
- **Is the product waterproof?**
The product is water-resistant but not waterproof. Avoid submerging it in water.

- **Can I use the product with multiple devices simultaneously?**

The product can only be connected to one device at a time. Disconnect from one device before pairing with another.

Brief

- SP530E is a versatile IoT LED controller designed specifically for controlling various types of LED. It utilizes a dual-mode (2.4GHz WiFi and Bluetooth LE5.0) chip, enabling Bluetooth, WiFi, local network, or cloud connection via an App. It also supports RF remote control.







































- Furthermore, the SP530E has integrated with various smart home platforms, including Alexa, Google Home, Xiao Ai, and Xiao Du, allowing you to easily control your light through voice commands. SP530E offers limitless potential for lighting and ambiance needs, delivering a more intelligent, convenient, and personalized experience to you.

Features

1. Supports multiple control methods, including App control, smart speaker voice command control, and 2.4G RF remote control, providing users with flexible control options.
2. All-new upgraded music effects, featuring multi-segment LED strip music effects and Matrix LED music spectrum effects.
 - **Multi-segment LED strip music effects:** Users can configure multiple segments of music effects on the same LED strip, each segment of the strip can feature different music effects, various pixel counts, and can be tailored to correspond with low, mid, or high audio frequency ranges.
 - **Matrix LED music spectrum effects:** Users can flexibly configure the size and wiring layout of a LED matrix, can set parameters for the falling dots and sound columns, such as color palette, saturation, direction, etc. Offering users even more unique music spectrum effects.
 - **Various music collection methods:** Supports various music collection methods including phone microphone, player streaming, and onboard microphone.

- Compatible with up to 12 different types of LED.
- Supports power on/off dynamic effects setting, timer settings, playful on/off triggering settings, and default power-on status setting.
- Supports OTA firmware upgrades, keeping the device in its optimal state.
- Integrated with “Banlanx®” Cloud for stable IoT smart home cloud connections.

LED TYPE



NO.	Parameters			LED Type
	RGB	CW	WW	
1				1CH PWM Single Color
2				2CH PWM CCT
3				3CH PWM RGB
4				4CH PWM RGBW
5				5CH PWM RGBCCT
6				SPI Single Color
7				SPI CCT
8				SPI RGB
9				SPI RGBW
10				SPI RGBCCT
11				SPI RGB+1CH PWM Single Color
12				SPI RGB+2CH PWM CCT

APP

- SP530E supports App control for iOS and Android devices.
- Apple devices require iOS 10.0 or higher, and Android devices require Android 4.4 or higher.
- You can search “BanlanX” in App Store or Google Play to find the APP, or scan the QR code to download and install.



Operations

- Open the App, click the  icon in the top right corner of the home page to add device .
- Please set the LED type and calibrate the color order according to the page prompts, you can also change these settings on the settings page.
- Click the  icon in the upper right corner of the App to enter the settings page, where you can modify the name, modify the type of LED, calibrate the color order, set the timings, set the on/off effect, etc.

2.4G Touch Remote Control

SP530E can be used with 2.4G touch remote control and 2.4G touch 86-type panel; There are 4 kinds of remote control, 4 kinds of 86-type panel; different type of LED match different remote and panel models:

1CH PWM Single Color	2CH PWM CCT	3CH PWM RGB	4CH PWM RGBW	5CH PWM RGBCCT	SPI Single Color
 	 	 	 	 	 
SPI CCT	SPI RGB	SPI RGBW	SPI RGBCCT	SPI RGB +1CH PWM	SPI RGB +2CH PWM CCT
 	 	 	 	 	 

Remote Models



86-Type Panel Models



RC1



RC2



RC3



RC4

Touch Functions

ON	OFF	Brightness Level	Warm/Nature/ Cold White	White	Color HUE/ Temperature Ring
Brightness	Brightness	Brightness Ring	Temperature Ring	Color HUE Ring	Color HUE/ Temperature Ring
Speed	Mode+	Mode-	Music effect	1-4 Zones	All Zones

Note:

1. Within 20s after power on, long press the ON key: binding/unbinding the remote/panel;
2. Within 20s after power on, long press Zonel~4/ZoneAll, to set the Zones;

Technical Parameters:

SP530E

- **Working Voltage:** DC5V~24V
- **PWM Single Channel Maximun Output Current:** 6A
- **Working Temp:** -10°C~60°C
- **Working Current:** 20mA~85mA
- **PWM Total Maximun Output Current :** 12A
- **DIMensions:** 78mm*56mm*20mm

4G Remote/Panel

- **Working Voltage:** 3V(CR2032)
- **RF frequency:** 2.4GHz
- **Remote DIMensions:** 135mm*48mm*10mm

- **Quiescent Current:** 36 μ A
- **Remote Range:** 30M
- **Panel DIMensions:** 86mm*86mm*12mm

Wiring

Different types of LED correspond to different output ports; The ports should match the selected LED type, and the specific port descriptions as follows:

LED Type		Output Port							
		VCC	R	G	B	CW	WW	DAT	GND
1	1CH PWM Single Color	✓				✓	✓		
2	2CH PWM CCT	✓				✓	✓		
3	3CH PWM RGB	✓	✓	✓	✓				
4	4CH PWM RGBW	✓	✓	✓	✓	✓			
5	5CH PWM RGBCCT	✓	✓	✓	✓	✓	✓		
6	SPI Single Color	✓						✓	✓
7	SPI CCT	✓						✓	✓
8	SPI RGB	✓						✓	✓
9	SPI RGBW	✓						✓	✓
10	SPI RGBCCT	✓						✓	✓
11	SPI RGB+1CH PWM Single Color	✓				✓	✓	✓	✓
12	SPI RGB+2CH PWM CCT	✓				✓	✓	✓	✓

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

FOR MORE INFO




Download The APP



Electronic Manual

Documents / Resources

	Sperll SP53XE LED Controller [pdf] Instructions SP53XE LED Controller, SP53XE, LED Controller, Controller
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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