Sperll SP548E SPI RGB IoT LED Controller Instructions

Contents

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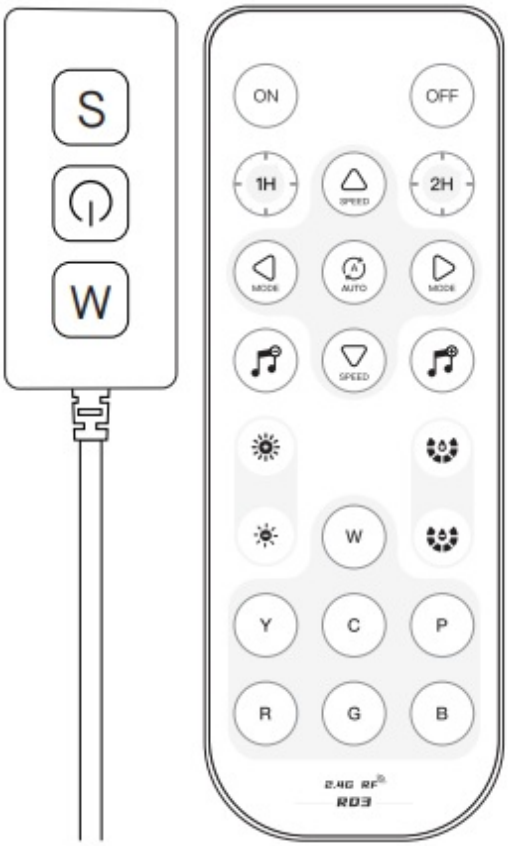


Specifications:

- Product Name: SP548E SPI RGB IoT LED Controller
- Control Methods: Bluetooth, WiFi, Remote Cloud, Smart Speaker Voice Control
- Supported Systems: iOS, Android
- Operating Voltage: DC5-24V
- Working Current: 14mA~42mA
- Dimensions: 55mm x 26mm x 12mm (excluding wires)
- Remote Control Operating Voltage: 3V (CR2025)
- Remote Control Distance: 30 meters
- RF Frequency: 2.4G

Product Usage Instructions

APP Control:

1. Download and install the BanlanXin App from the App Store (iOS) or Google Play (Android).
2. Open the App and click the icon in the top right corner to add the device.
3. Access the settings page by clicking the icon in the upper right corner to customize device settings, timings, on/off effects, firmware upgrades, etc.

Remote Control Operation:

- **ON Button:**
  - Short press: Turns on the light.

    - Long press: Hold within seconds of powering on to bind/unbind the remote control.
- **OFF Button:**
    - Short press: Turns off the light.
    - Long press: Hold within seconds of powering on, then long-press to clear all paired remote controllers.
- **Other Functions:**
    - Speed+/-, Timed 1/2H Delay-Off, Collected Effect Cycle, Mode+/-, Music+/-, Brightness+/-, Color+/-
    - Color Select: W (White), Y/C/P (Yellow/Cyan/Purple), R/G/B (Red/Green/Blue)
    - Supports one-to-many control and many-to-one control with multiple controllers.

FAQ

How do I set up voice control with smart speakers?

To set up voice control with smart speakers like Alexa or Google Home, follow these steps:

1. Ensure your smart speaker is connected to the same network as the SP548E controller.
2. In the smart speaker app, search for available devices and add the SP548E controller.
3. Follow the app instructions to link and enable voice control for the controller.
4. You can now use voice commands to control the lights through your smart speaker.

Brief

SP548E is an advanced SPI three-channel RGB color IoT LED controller that offers unique dynamic, musical, and customizable effects, enabling users to fully control and create theirideal atmospheric scenes. This controller combines the latest technology with flexible features, providing solutions for homes, commercial spaces, and any scene requiring a personalized atmosphere.

Product Features

1. APP Control: Utilizes a dual-mode master control chip for efficient Bluetooth networking, supporting Bluetooth, WiFi, and remote cloud connections;
2. Smart Speaker Voice Control: Integrated with smart speaker platforms like Alexa, Google Home, XiaoDu, XiaoAi, allowing for voice commands to control light switches, brightness, and colors;
3. Includes a standard RD3 2.4G RF remote control;
4. Supports up to 1200 conventional zero-code three-channel single-line LED driver ICs;
5. Features a rich array of dynamic and music effects, with adjustable brightness, speed, direction, and effect length, including a pause function, and supports customizable static and dynamic effects in solid and gradient colors;
6. Diverse music collection methods, including smartphone microphones, player streaming, and onboard microphones;
7. Offers various switch-on/off animation effects and timed switches;
8. Supports OTA firmware upgrades; connects with“ BanlanX ” Cloud for a stable IoT cloud connection;
9. Supports the APP’s automatic connection and device reconnection function, as well as group management for multiple devices

APP

1. SP648E supports App control for iOS and Android devices.
2. Apple devices require iOS 10.0 or higher, and Android devices require Android 4.4 or higher.
3. You can search“ BanlanX”in App Store or Google Play to find the APP, or scan the QR code to download and install.

Operation

- Open the App, click the + icon in the top right corner of the home page to add device; Click the icon in the upper right corner of the App to enter the settings page, where you
- Click the icon in the upper right corner of the App to enter the settings page, where you can modify the device name,set the timings, set the on/off effect, OTA firmware upgrade, etc.

Work With 2.4G Remote Control

The 2.4G remote control models (RD3) matched with SP548E are as follows

1. **ON Button**
   - Short press: Turns on the light
   - Long press: Long-press the ON button within 20 seconds of powering on the controller to bind/unbind the remote control
2. **OFF Button**
   - Short press: Turns off the light.
   - Long press: Within 20 seconds of powering on the controller, first turn off the OFF light completely, then long press the button to clear all paired remote controllers.
3. **Speed+/-**
4. **Timed 1/2H Delay-Off**
5. **Collected Effect Cycle**
6. **Mode+/-**

7. **Music+/-**
8. **Brightness+/-**
9. **Color+/-**
10. **Color Select**

- W: White
- Y/C/P: Yellow/Cyan/Purple
- R/G/B: Red/Green/Blue

Support one-to-many control,one remote control can control multiple controllers. Support many-to-one control, each controller can bind up to 5 remote controls.

Technical Parameters

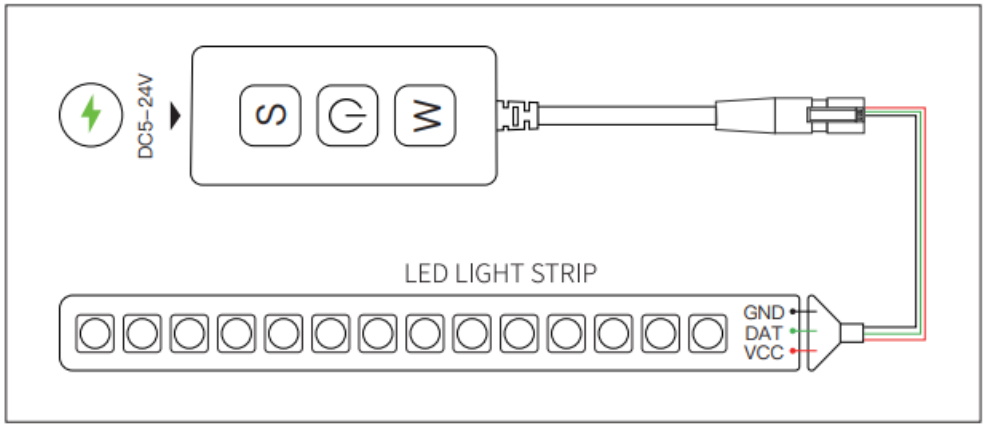
Controller:

Working Voltage DC5V~24V	Working Current 14mA~42mA
Working Temp -10°C~60°C	Dimension 55mm*26mm*12mm not including wires

2.4 G Remote

Operating Voltage: 3V (CR2025)	Static Current: 1uA
RF Frequency: 2.4G	Remote Control Distance: 30 meters
Remote Control Dimensions: 135mm48mm10mm	

Wiring



FCC Statement

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, and

2. this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 the 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum distance between 20cm the radiator your body: Use only the supplied antenna.

Download The APP

Documents / Resources

	Sperll SP548E SPI RGB IoT LED Controller [pdf] Instructions SP548E SPI RGB IoT LED Controller, SP548E, SPI RGB IoT LED Controller, IoT LED Controller, LED Controller, Controller

References

- User Manual