

Single button strip light with controller

1. Product overview

LC243-MICIR-A1 is a low power LED intelligent light strip controller, PCBA model LS10X-G-RGBW-IR-MIC. It is mainly composed of an RTL8710BN-VA-CG main chip, and peripheral FLASH(2MB),MOS tube switch control circuit, etc., 8710BN built-in MCU and WiFi:802.11b/g/n from radio frequency to MAC layer all the hardware and software functions.

This product supports mobile APP control, Amazon Echo voice control, Tmall Genie voice control (third-party voice control is opened according to customer requirements), LC243-MICIR-A1 can achieve GRB three street lamps with brightness adjustment, white light brightness adjustment (PMW deployment of white light effect), light color adjustment, a variety of mode switching. Timing switch on and off the lights and other functions; Support local music rhythm with MIC; Support infrared remote control

1.1 Features

- ❖ built-in MCU, could be used as the processor
- ❖ work voltage/current: 12 V / 2 A input
- ❖ maximum power: 48 w
- ❖ support MIC
- ❖ support infrared remote control
- ❖ GRB three way light control
- ❖ WI-FI connectivity
 - 802.11 b/g/n / 1 T1R, 20/40 M bandwidth
 - channel 1-11@2.4GHz
 - 802.11 b mode maximum + 16 DBM output power
 - working temperature : -20°C to+75°C

1.2 Main Application areas

- ❖ GRB light strip
- ❖ decorative light string
- ❖ indoor atmosphere lamp
- ❖ LED decorative light

1.3 Finished product picture & Key Function & remote control definition



TOP view



BOT view



Remote control

Key function definition:

- ❖ Long press 5 seconds into the distribution network pattern, indicator light flash for EZ mode; In the fast blinking state, hold down for another 5 seconds to enter the hot network configuration mode. Complete network configuration within 3 minutes.

Remote control key definition

ON/OFF	Turns on/off the light Long press ON for 5 seconds to enter the network distribution mode, and the indicator blinks to EZ mode. In the fast blinking state, hold down for another 5 seconds to enter the hotspot network configuration mode.
FLASH	corresponds to the colorful scene in the APP
STROBE	corresponds to the colorful scene in the APP
FADE	corresponds to the soft scene in the APP
MUSIC	corresponds to local music rhythms
RGBW	switches the corresponding color, red, green, blue, white
	The brightness goes up and down

2. Network distribution mode

Mode 1 /EZ flash networking

(1) Power on the device, long press the button for 5 seconds to turn the indicator into the flash state, and perform network distribution according to the operation steps on the APP.

(2) Or the device turns on or off for three times into the flash state.

Mode 2 /AP Slow flash network configuration

(1) After the device is powered on, long press the button for 5 seconds until the indicator turns into the blinking state. At this time, long press the button for another 5 seconds until the indicator turns into the slow blinking state. Then, perform network distribution according to the operation steps on the APP.

(3) After the device switches on and off for three times into the fast blinking state, the device switches on and off for three times into the slow blinking state.

3. Packaging information

GRB three way lamp with controller finished product/white (including 12V DC power supply + infrared integrated wire, 4PIN male headlamp with strip wire), 24 key remote control



Size and Specification:

Control box: 63.5 (L) *23.9 (W) *11.6 (H) ± 0.3 mm

Remote control: 52 (length) *85 (width) *7 (height) ± 0.3 mm

4-PIN lines: The exposed lines are 120 ± 10 mm long, and the direction points are arranged in +GRB sequence.

DC 12V+ integrated signal cable: The length of the exposed cable is 130 ± 10 mm

3. operating environment

table 5 operating environment

Ambient temperature	Operating temperature : -15°C ~ 50°C Storage temperature: -40°C ~ 85°C
Ambient humidity	Operating: 5% ~ 80%RH (no condensation) Storage: 5% ~ 95%RH (no condensation)

FCC Caution:

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 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 minimum distance between 20cm the radiator your body: Use only the supplied antenna.