LED Technologies
Creative LED & Effect Technology for the Trade Professional

MiBOXER® | Mi·Light Subordinate New Brand

5 in 1 SPI+DMX LED Controller (BLE+2.4G)

Model No.: SPIB5

Product Feature



·Support BLE+2.4GHZ wireless transmitting technology

·5 in 1 SPI controller, single color, cct, rgb, rgbw, rgb+cct output selection

·Speed, static mode, dynamic mode and music mode adjustable

·Dual SPI/DMX control protocol, compatible with DC5-24V input

·Dynamic mode : 28 kinds of white color and 80 kinds of RGB color for selection, it can change color, brightness, width and speed for those modes

·8 kinds of music mode work with internal microphone and smart phone microphone

·Freely switching dynamic mode and music mode

·Setting up boot animation via TUYA APP

·Have DND mode, usually used in power failure area to save power

Product Parameter

Product Name:	5 in 1 SPI+DMX LED Controller (BLE+2.4G)	Control Distance:	30m
Model No.:	SPIB5	IP Rate:	IP20
Input Voltage:	DC 5V-24V	Working Temp.:	-10~40℃
Output Current:	Max 10A	Dimension:	74.5*36*17mm
Output signal:	SPI(TTL) 800Kbps (Max 1024 Pixel) DMX: 250Kbps(Max 256 Pixel) DMX: 500Kbps(Max 512 Pixel) DMX: 750Kbps(Max 768 Pixel)	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
Standby current:	20mA	Radio Equipment (RED):	ETSI EN 300 440 V2.2.1
Protocol:	BLE+RF 2.4GHz	Certification:	CE, EMC, LVD, RED



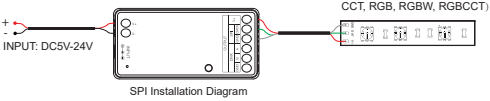


Connection Diagram



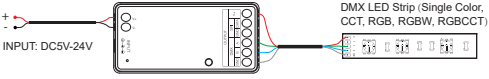
C9 Remote
(Purchased separately)

SPI Mode
Pixel: Max 1024



SPI Installation Diagram

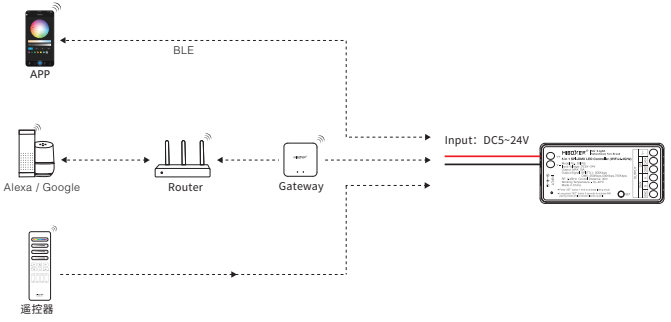
DMX Mode
Pixel: DMX 750Kbps Max 768, DMX 500Kbps Max 512, DMX 250Kbps Max 256



DMX Installation Diagram

Note: Switching output mode requires switching via APP

Application Diagram



Compatible remote (purchase separately)



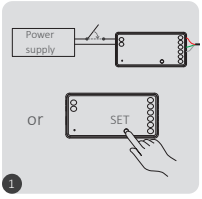
C9 SPI Remote



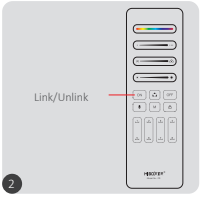
B9 SPI Panel Remote

Link/Unlink

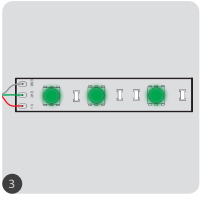
1). Link



Power off 10 seconds and power on again or short press"SET"



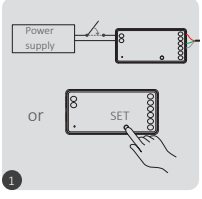
Short press " ON" button 3 times within 3 seconds.



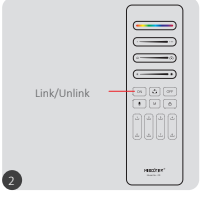
Green flashing state, then the code is successful.

Link is failed if light doesn't flash, please repeat above steps
（Attention: can not link again if remote already finished linking）

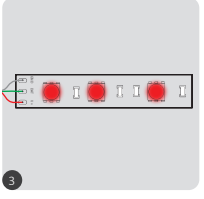
Unlink:



Power off 10 seconds and power on again or short press"SET"



Short press "ON" button 5 times within 3 seconds.



Red flashing state, Then clear the code successfully.

Unlink is faild if light doesn't flash, please repeat above steps
（Attention: no need to unlink if the light never be linked）

Smart Phone APP Control

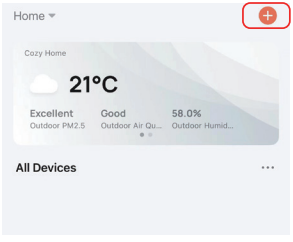
Pairing Network (don't support 5G router)

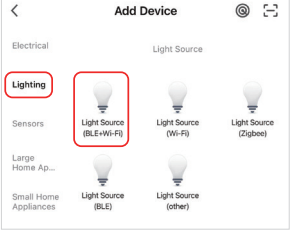
1).Download and install "TUYA SMART" APP

search "TUYA SMART" in application store or scan QR code, please register account if using it in the first time, login into account if already have account

2).Pairing Network

Connect controller with mains
Ensure indicator flashes quickly(2 times per seconds)
You have 2 ways to correct indicator status
-Long press" SET" button
-Power off and power on controller 6 times
Connect phone with home wifi 2.4GHZ network
Open the APP interface, click "+"
Click "Lighting" and "Light source (BLE+Wifi)
Complete the rest steps

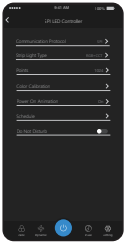












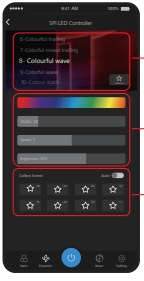
Function Instruction



APP

Static Mode

Adjust or save pure static illumination



28 kinds of white color 80 kinds of rgb color

Change color, width, speed and brightness for all those modes

Save 8 scenes

For example, regarding as App

Dynamic Mode (select it via remote)

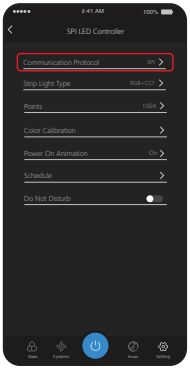
28 kinds of white color, 80 kinds of rgb color, save favorite modes and 8 scenes mode, all modes can change color ,brightness, width and speed

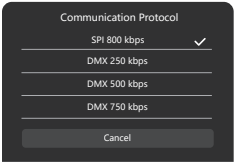
Music Mode

8 kinds of music mode work with internal microphone and smart phone microphone

Setting Communication Protocol

Setting it via APP

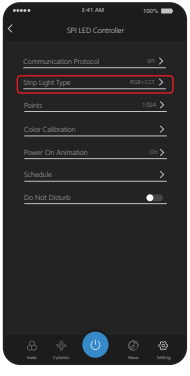


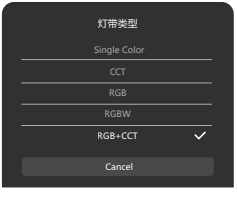


Select SPI or DMX protocol

Setting LED strip light

Change output based on different LED strip lights
like single color, cct, rgb, rgbw, rgb+cct

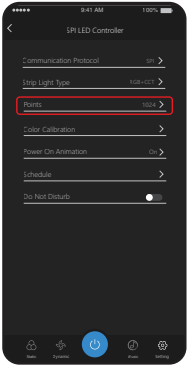


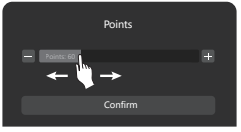


LED strip light types

Setting Pixel points

Setting it via program

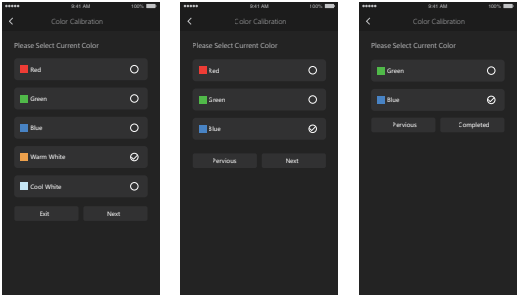




Slip the slider to change numbers

Color Calibration

Correct the color of led strip light via APP



Following the tip to complete color calibration

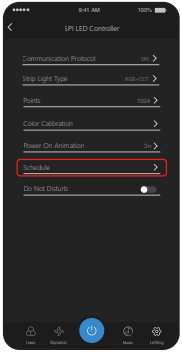
Boot Animation

Setting color or color temperature, speed and brightness



Timer Function

Setting it via APP







DND Mode ON/OFF

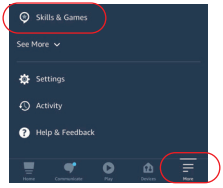
Turn on DND mode (usually using in power failure area to save power)

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Alexa voice control instruction

Please add device into **[Tuya Smart]** app, then start following steps

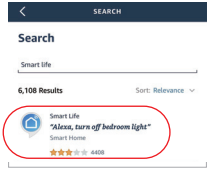
1). Open Alexa App
2). Click “More” on the bottom of right corner
3). Click “Skills & Games”



4). Click “ 🔍 ” on the top of right corner
5). Type into “Smart life” and search



6). Click “Smart Life” skill, follow instruction to finish configuration and start voice control

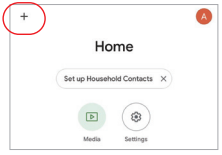


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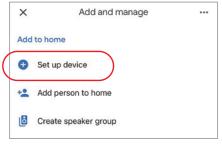
Google Home voice control instruction

Please add device into **[Tuya Smart]** app , then start following steps

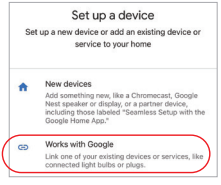
1). Open Google Home App
2). Click “+” on the top of left corner



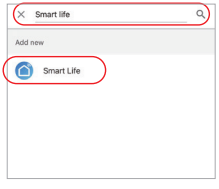
3). Click “Set up device”



4). Click “Works with Google”



5). Click “ 🔍 ” on the top of right corner
6). Type into “Smart life” and search
7). Click “Smart Life” skill, follow instruction to finish configuration and start voice control



Attention

1. Please turn off power supply before installation.
2. Please ensure input voltage to be same as requirements from device.
3. Don't disassemble device if you are not expert, otherwise it will damage it.
4. Please do not use the light in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.