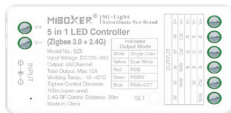# SZ5 5 in 1 LED Controller

Model No.: SZ5
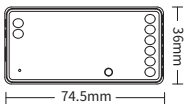
Features

- Zigbee 3.0 standard protocol
- Brightness and color temperature adjustable
- Built-in 18 dynamic mode with jumping, gradually changing(only for 2.4G remote control)
- Auto-forwarding: Automatically forward the remote control signal to another controller, making the remote control distance infinite
- Automatic synchronization: The same dynamic mode is automatically synchronized, so that the mode is always consistent
- Have DND function, usually used in power failure area and save power
- Support TUYA SMART app control (Zigbee 3.0 gateway is needed)
- Support third party voice control like Alexa, Google assistant,Yandex Alice, Tmall Genie,Baidu and Xiaomi (Zigbee 3.0 gateway is needed)
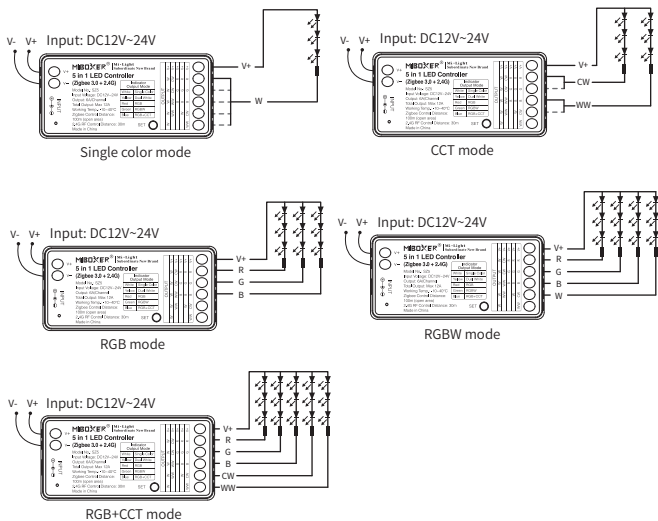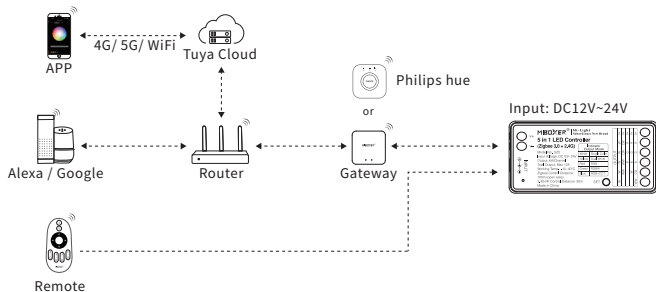- Support DMX512 control (requires DMX512 LED transmitter)

Parameters

Name: 5 in 1 LED Controller		Working Temperature:	-10~40℃
Model No.:	SZ5	EMC Standard (EMC):	ETSI EN 301 489-1 V2.2.3(2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01)
Input Voltage:	DC12~24V		
Output Current:	6A/ Single channel	Safety Standard (LVD):	EN 61347-1:2015+A1: 2021 EN 61347-2-11: 2001+A1:2019
Total Output:	Max 12A		
Protocol:	Zigbee 3.0/ 2.4GHz RF	Radio Equipment (RED):	ETSI EN 300 328 V2.2.2 (2019-07)
Control Distance:	Zigbee: 100M, 2.4G: 30M	Certification:	CE, EMC, LVD, RED
IP Rating:	IP20		

74.5mm · 36mm · 17mm

Connection Diagram

Single color mode

CCT mode

RGB mode

RGBW mode

RGB+CCT mode

Application Diagram

APP

4G/ 5G/ WiFi

Tuya Cloud

Philips hue

or

Input: DC12V~24V

Alexa / Google
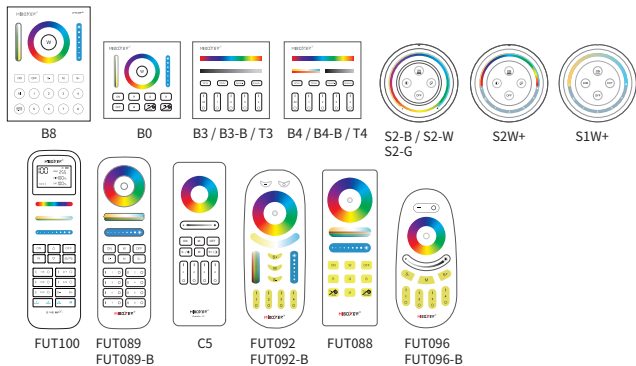
Router

Gateway

Remote

Set up output mode

Set up correct output mode based on the feature of lights

Setting method: Press "SET" button continuously to switch output mode (attention: it will log out without operation within 3 seconds)

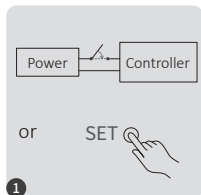Output mode sheet (confirm output mode based on color of indicator)

Indicator color	White Light	Yellow Light	Red Light	Green Light	Blue Light
Output	Single Color	Dual White	RGB	RGBW	RGB+CCT

Compatible with these 2.4G RF remote controls (Purchase separately)

B8	B0	B3 / B3-B / T3	B4 / B4-B / T4	S2-B / S2-W S2-G	S2W+	S1W+

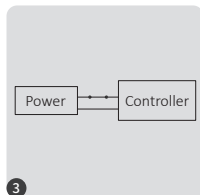|					
FUT100	FUT089 FUT089-B	C5	FUT092 FUT092-B	FUT088	FUT096 FUT096-B

2.4G RF Remote control instruction

1). Linking Code Instructions

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

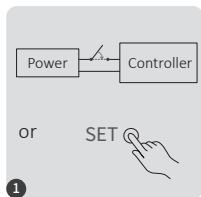**2** Short press " Ⅰ " button 3 times within 3 seconds.

3 Lights blink 3 times slowly means linking is done successfully.

⚠️ Linking failed if light is not blinking slowly, Please follow above steps again. (Note: Light that have linked can't link again)
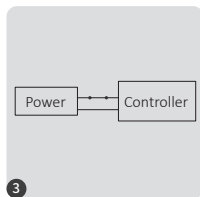
2). Unlinking Code Instructions

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

2 Short press " Ⅰ " button 5 times within 3 seconds.

3 Lights blink 10 times quickly means unlinking is done successfully.

⚠️ Unlinking failed if light is not blinking quickly, Please follow above steps again. (Note: Light haven't linked that don't need to unlink)

3). Auto transmitting & Synchronization **(only for remote control)**

Remote signal auto transmitting

One light can transmit the signals from the remote control to another light within 30m, as long as there is a light within 30m, the remote control distance can be limitless.

Dynamic modes auto synchronization

Multi lights can synchronize if they are in same dynamic mode and linked with same remote (distance between each light is within 30m)

Auto transmitting /
Modes auto synchronization

Controller

Distance 30m

Controller
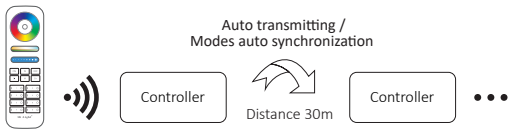
4). Dynamic mode table selection **(only for remote control)**

Select dynamic mode table 1:

While the light is in static mode, short press **" S+ "** button 5 times quickly until blue light flashes 3 times slowly, static mode is activated successfully.

Select dynamic mode table 2:

While the light is in static mode, short press **" S- "** button 5 times quickly until yellow light flashes 3 times slowly, static mode is activated successfully.

Dynamic mode table 1 **(default)**

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	Adjustable
6	American	
7	Fat Tuesday	
8	Party	
9	Slow Color Splash	

Dynamic mode table 2 **(need to switch manually)**

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Seven colors gradual change	
2	White light Gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	Adjustable
6	Red light gradual change +Flash 3 times	
7	Green light gradual change +Flash 3 times	
8	Blue light gradual change +Flash 3 times	
9	White light gradual change +Flash 3 times	

5). PWM high frequency / low frequency switching (only for remote control)

Switch to high frequency:

Press "OFF" button 1 time within three seconds and press **"ON"** button 5 times, Activated successfully once led light flashes 2 times quickly.

Switch to low frequency:

Press "ON" button 1 time within three seconds and press **"OFF"** button 5 times, Activated successfully once led light flashes 2 times slowly.

6). "Do Not Disturb" mode is activated and shut down (default activated)

Turn on "Do Not Disturb" mode (wide using in the area which have power failure frequently to save energy)

2.4G RF Remote turn on and turn off instruction

Turn on "Do Not Disturb" mode:

Press "OFF" button three times within three seconds and press "ON" button three times, Activated successfully once led light flashes four times quickly.

Attention: Do not disturb mode is activated

1. When the light is OFF status (For example: Use app or remote to turn off light)

   The light is OFF status once you turn off power and turn on again.
   (User must turn off and turn on power twice times to activate light or use APP / remote to activate light)

2. When the light is ON status

   The light is ON status once you turn off and turn on power one time.

Turn off "Do Not Disturb" mode:

Press "ON" button three times within three seconds and press "OFF" button three times, closed successfully once led light flashes four times slowly.

Attention: The light will be always "ON" status if you turn on and turn off power once user closed "Do Not Disturb" mode.

App turn on and off "Do Not Disturb" mode instruction

Smartphone APP control instruction

Added Zigbee 3.0 gateway into "Tuya Smart" App (please review instruction of Zigbee 3.0 gateway)

1). Connect with power supply.

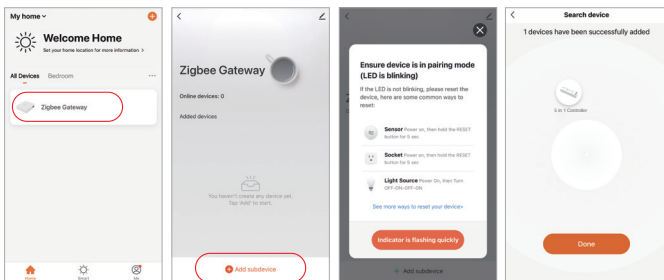2). Pairing network (attention: factory default is pairing network).

    Way one: Turn off and turn on light 3 times or over 3 times continuously, the light is in breathing status.

    Way two: Long press " SET " key until indicator light flashing.

3). Open "**Tuya Smart**" APP to click Zigbee gateway, then click "**Add sub device**".

4). Click "**Indicator is flashing quickly**".

5). Support APP dimming or group control and etc once added successfully.

## App turn on and off "Do Not Disturb" mode (default activated)

Click the light which need to be set up or group control --- click "More"--- click "Power-on behavior"--- turn on or off
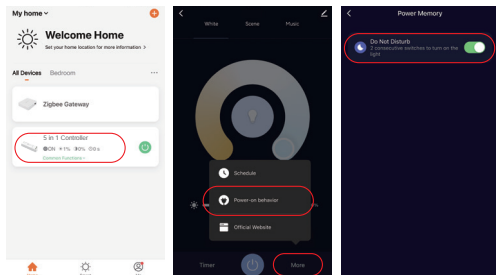
Philips Hue control instruction

Added "Philips Hue" into APP

1). Connect with power supply
2). Pairing network (attention: factory default is pairing network)
   Way one: Turn off and turn on light 3 times or over 3 times continuously, the light is in breathing status.
   Way two: Long press " SET " key until indicator light flashing.
3). Open "Philips Hue" App to click "SETTINGS" and click "Lights"
4). Click "+" on the top of right corner
5). Click "Search"
6). Click "Start configuration", Follow the app instruction to complete configuration
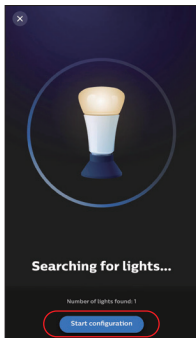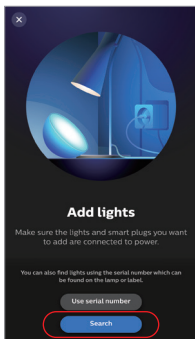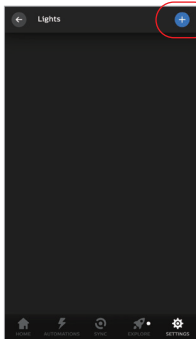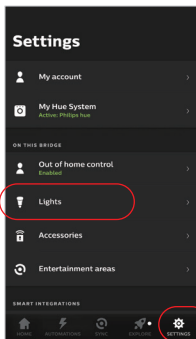
Alexa voice control instruction

1). Alexa control (Audio support Zigbee 3.0 protocol)

Connect Amazon ECHO directly if it's already built-in zigbee 3.0 protocol, following model with zigbee 3.0 protocol:

Amazon ECHO Plus (2nd Gen), ECHO (4th Gen), ECHO Studio, ECHO Show (2. Gen)

1). Connect with power supply
2). Pairing network (attention: factory default is pairing network)

    Way one: Turn off and turn on light 3 times or over 3 times continuously, the light is in breathing status.

    Way two: Long press " SET " key until indicator light flashing.

3). Say to Amazon ECHO "Alexa, Discover devices"
    Wait for a while to discover device, Voice control is activated

"Alexa, Discover devices"
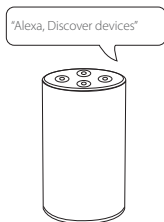
2). Alexa control (Audio don't support Zigbee 3.0 protocol)

Please add device into MiBOXER Zigbee 3.0 gateway if your Alexa don't support zigbee 3.0 protocol, then start following steps
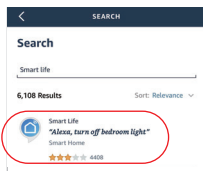
1). Open Alexa App
2). Click "More" on the bottom of right corner
3). Click "Skills & Games"

    Skills & Games
    See More
    Settings
    Activity
    Help & Feedback
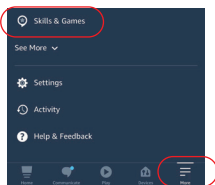
4). Click " 🔍 " on the top of right corner
5). Type into "Smart life" and search

    SKILLS & GAMES
    Discover   Categories   Your Skills

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

    SEARCH
    Search
    Smart life
    6,108 Results   Sort: Relevance
    Smart Life
    "Alexa, turn off bedroom light"
    Smart Home
    ⭐⭐⭐ 440B

Google Home voice control instruction

1). Open Google Home App
2). Click "+" on the top of left corner
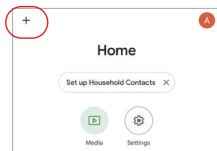
3). Click "Set up device"

4). Click "Works with Google"

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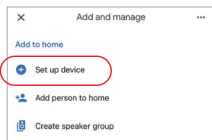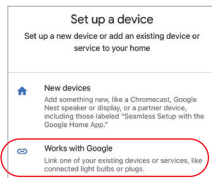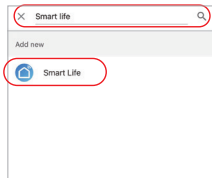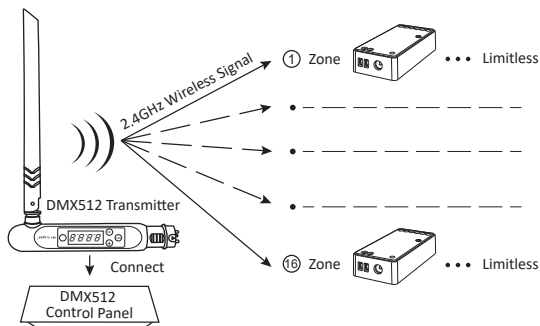7). Click "Smart Life" skill, follow instruction to finish configuration and start voice control

DMX512 LED Transmitter Control (Purchase separately)

2.4GHz Wireless Signal

① Zone • • • Limitless

⑯ Zone • • • Limitless

DMX512 Transmitter

Connect

DMX512
Control Panel

DMX512 LED Transmitter Link/Unlink

❶ Follow instruction of DMX512 transmitter (FUTD01), Choose the zone for the light by pressing " + " or " - " (e.g. "CH12" means zone 12)
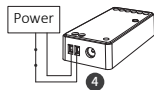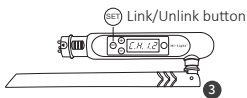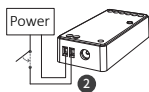
Power

SET Link/Unlink button

Power

C.H. 12

② ③ ④

Link

The controller is powered off for 10 seconds and then powered on, or press " SET " button 1 time.

Short press "SET" 3 times within 3 seconds while the indicator of controller is ON

Link is done once indicator of controller flashes 3 times slowly

Unlink

The controller is powered off for 10 seconds and then powered on, or press " SET " button 1 time.

Short press "SET" 5 times within 3 seconds while the indicator of controller is ON

Unlink is done once indicator of controller flashes 10 times quickly

⚠ If the link or unlink failed, please follow the above steps again.

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.

Made in China