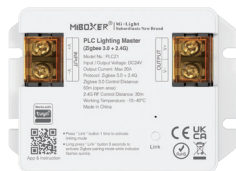


# PLC Lighting Master (Zigbee 3.0+2.4G)

Model: PLCZ1

## Features

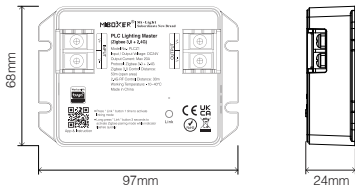
- Designed by PLC control solution, simple wiring diagram and work with Zigbee 3.0+2.4G wireless technology to achieve smart control.
- 16 million colors for selection, dimmable for rgb & cct & brightness
- One Master max paired with 12pcs 2.4G RF remote ( control distance 30m)
- Built-in 18 dynamic 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)



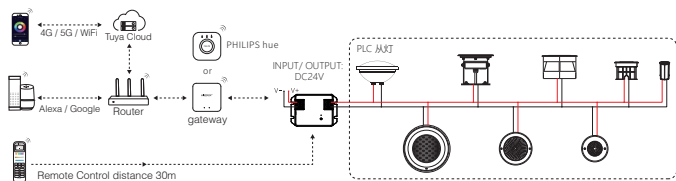
## Product Parameters

Product Name:	PLC Lighting Master (WiFi+2.4G)	WiFi Standard:	IEEE 802.11b/g/n 2.4Ghz
Model:	PLCW1	EMC Standards (EMC):	ETSI EN 301 489-1 V2.3.3 ETSI EN 301 489-3 V2.3.2
Input/ Output Voltage:	DC24V	Safety standards (LVD):	EN 61347-2-11: 2001+A1: 2019 EN 61347-1: 2015+A1:2021 EN 62493:2015+A1:2022
Power:	480W, 20A	Radio equipment (RED):	ETSI EN 300 400 V2.2.1
Protocol:	WiFi + 2.4GHz RF	Certification:	CE, EMC, LVD, RED
Control distance:	2.4G: 30m		
IP Rating:	IP20		
Working Temp.:	-10~40°C		

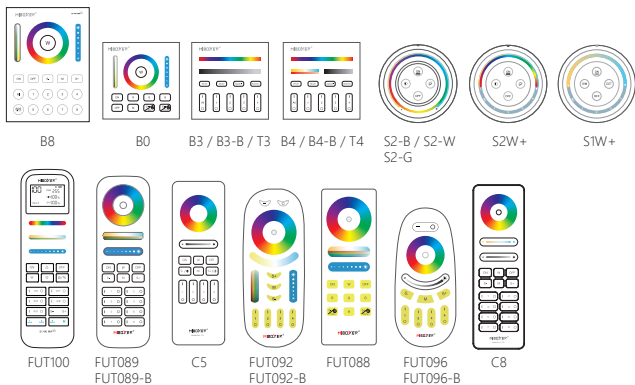
## Stair light host



## Connection Diagram

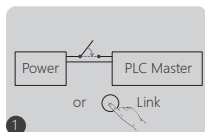


Compatible with these 2.4G RF remote controls  
(Purchased separately)



## Link/Unlink

Link Attention: Remote need to link with Stair controller



1

Turn off light 10 seconds and turn on again



2

short press " | " 3 times within 3 seconds



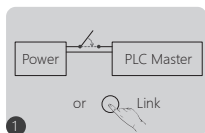
3

link is done once light flashes 3 times slowly



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

## Unlink



1

Turn off light 10 seconds and turn on again



2

short press " | " 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)

## Auto transmitting & Synchronization (only for remote control)

### Remote signal auto transmitting

One Master can transmit the signals from the remote control to another Master within 30m, as long as there is a Master 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)



Master

Auto transmitting /  
Modes auto synchronization



Distance 30m

Master



## 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.

\*C5/ FUT096/ FUT096-B/ S2-B/ S2-W/ S2W+/ S2B+ not support to switch modes

### Dynamic mode table 1 (default)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	Adjustable
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	
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	Adjustable
2	White light Gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	
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	

## "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

(For more details, please review point 3 in APP control instruction)

## Smartphone APP control instruction

## Smartphone APP control instruction

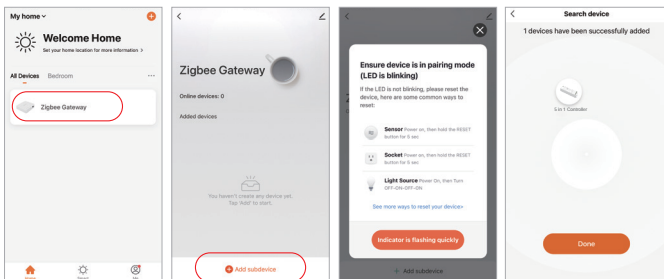
Added Zigbee 3.0 gateway into "Tuya Smart" App (please review instruction of Zigbee 3.0 gateway)

- 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.

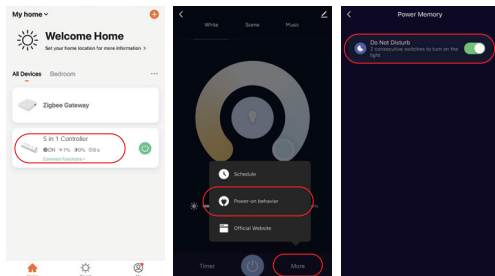
**Way two:** Long press " SET " key until indicator light flashing.

- 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)

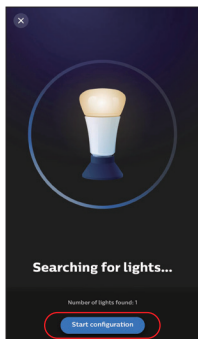
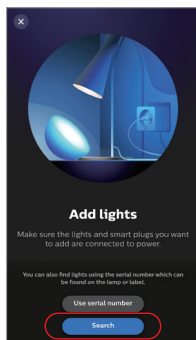
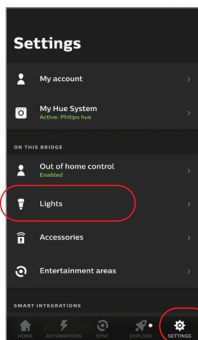
Click the light which need to be set up or group control --- click "More" --- click "Power-on behavior" --- turn on or off



# 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:

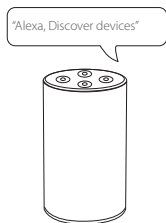
Amazon ECHO Plus ( 2nd Gen), ECHO (4th Gen), ECHO Studio, ECHO Show (2. Gen)

- 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.

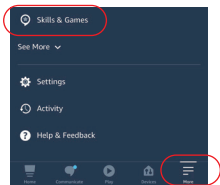
- 3). Say to Amazon ECHO "Alexa, Discover devices"  
Wait for a while to discover device, Voice control is activated



## 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

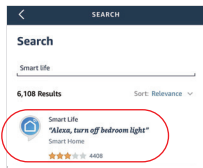
- 1). Open Alexa App
- 2). Click "More" on the bottom of right corner
- 3). Click "Skills & Games"



- 4). Click "Q" on the top of right corner
- 5). Type into "Smart life" and search



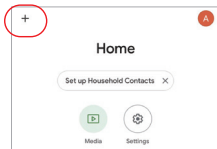
- 6). Click "Smart Life" skill, follow instruction to finish configuration and start voice control



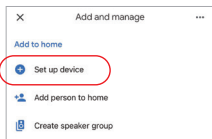
# Google Home voice control instruction

Please add device into MiBOXER Zigbee 3.0 gateway and start following steps

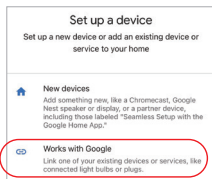
- 1). Open Google Home App
- 2). Click "+" on the top of left corner



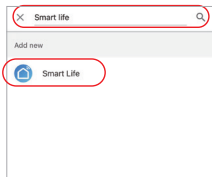
- 3). Click "Set up device"



- 4). Click "Works with Google"



- 5). Click "Q" 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.



Made in China