



# SKYDANCE WZ1 2CH LED Controller Mechanical Structures User Manual

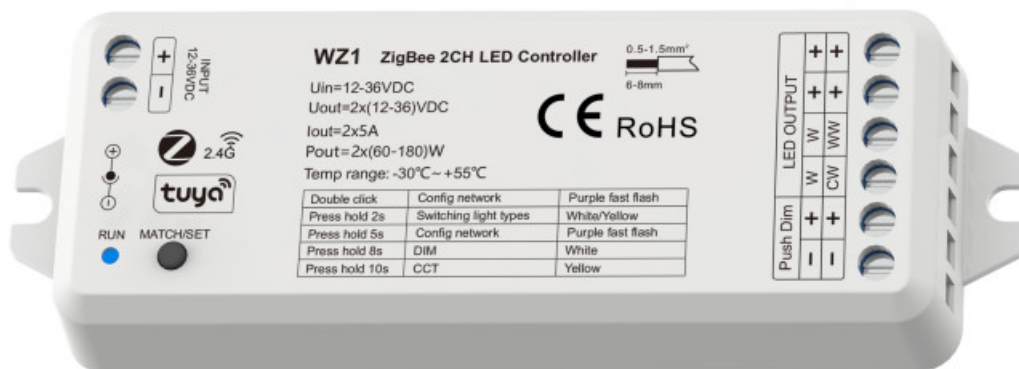
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# SKYDANCE

# WZ1 2CH LED Controller Mechanical Structures User Manual

**Model No.: WZ1**

Tuya APP cloud control Philips HUE control//Voice control /2 Channels/Push-Dim/DC power socket input



FC  CE RoHS  LVD RED

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## Features

- Used for controlling single color or color temperature LED strip.
- DC power socket input and 2-channel constant voltage output.
- Tuya APP cloud control supports on/off, color temperature and brightness adjustment, delay turn on/off light, timer run, scene edit, and music play functions.
- Philips HUE APP control by connecting with Philips HUE bridge.
- Voice control, support amazon ECHO and TmallGenie smart speaker.
- Match with RF 2.4G remote control optional.
- The user needs to set the light type by pressing the key before the Tuya APP network connection and match the RF remote of the same light type.
- Each WZ1 controller can also work as a ZigBee-RF converter, then use Tuya APP to control one or more RF LED controllers or RF LED dimming drivers synchronously.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.

## Technical Parameters

### Input and Output

Input voltage	12-36VDC
Input current	10.5A
Output voltage	2 x (12-36)VDC
Output current	2CH,5A/CH
Output power	2 x (60-180)W
Output type	Constant voltage

### Dimming data

Input signal	Tuya APP + RF + Push Dim
Control distance	30m(Barrier-free space)
Dimming grayscale	4096 (2 <sup>12</sup> ) levels
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM Frequency	2000Hz (default)

## Safety and EMC

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
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

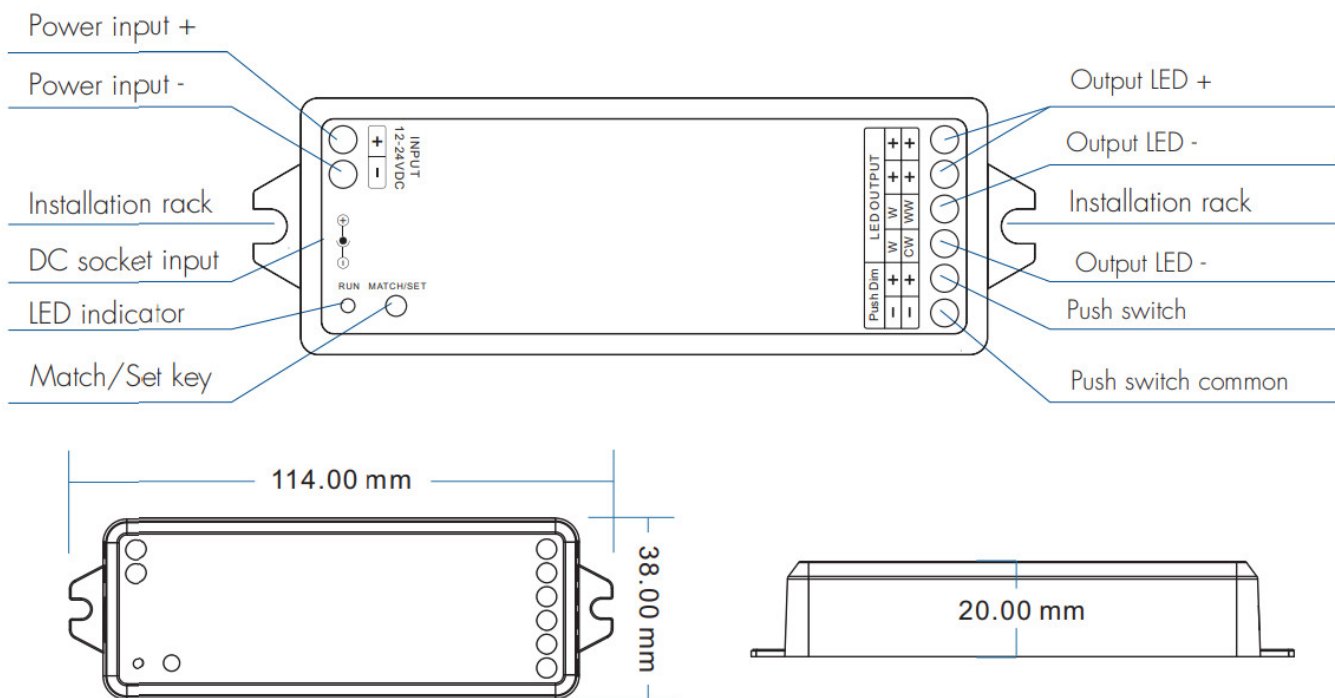
## Environment

Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

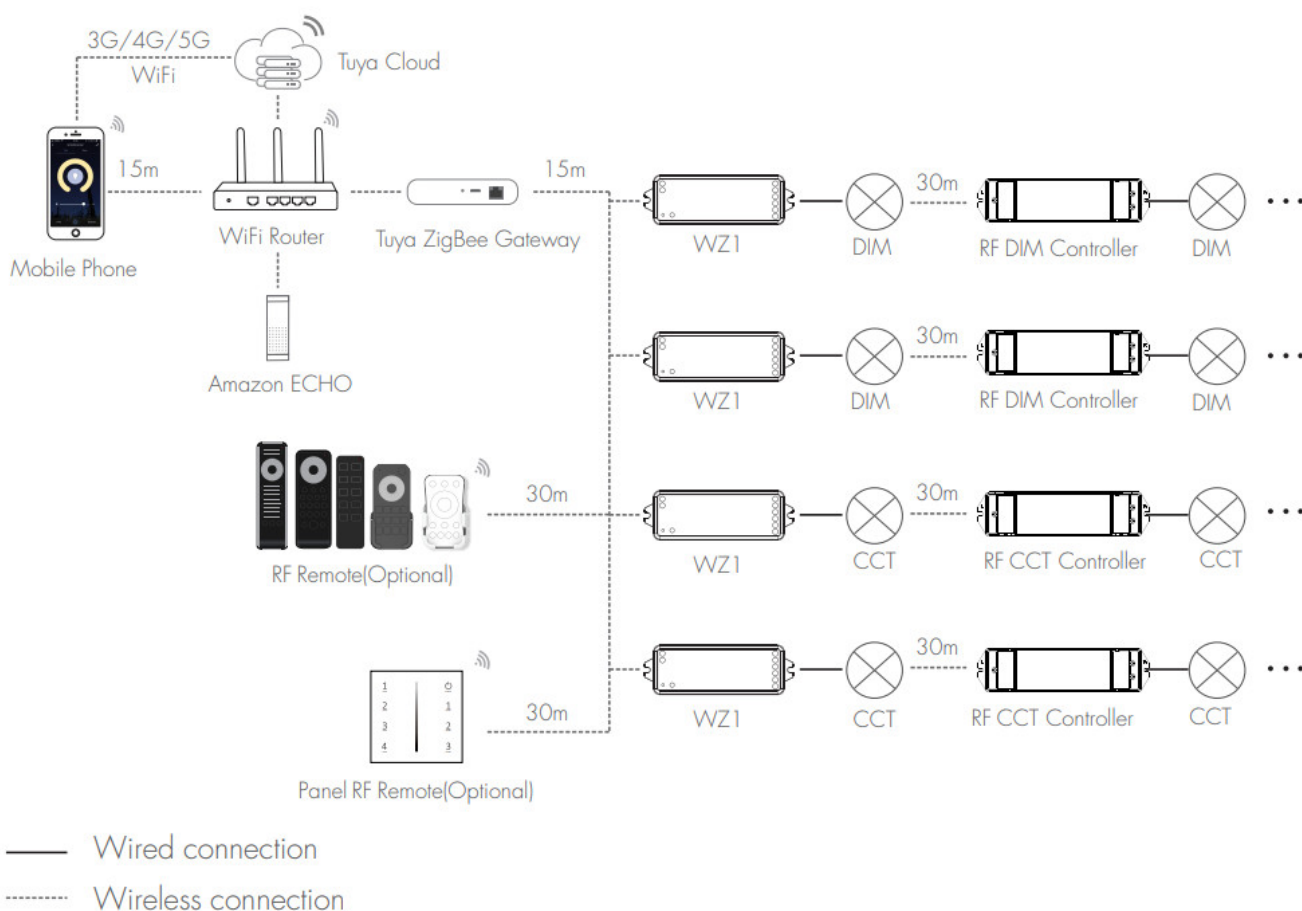
## Warranty and Protection

Warranty	5 years
Protection	Reverse polarity Over-heat Short circuit

## Mechanical Structures and Installations



## System wiring

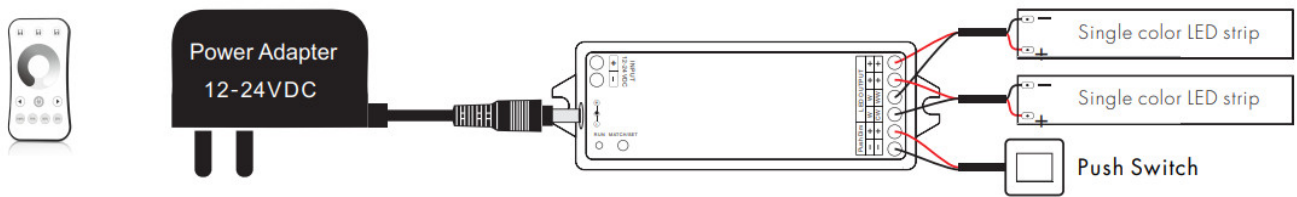


## Note:

1. T above distance is measured in a spacious(no obstacle) environment, Please refer to the actual test distance before installation.
2. Users must use the Tuya ZigBee gateway to realize remote control and voice control.

## Wiring Diagram

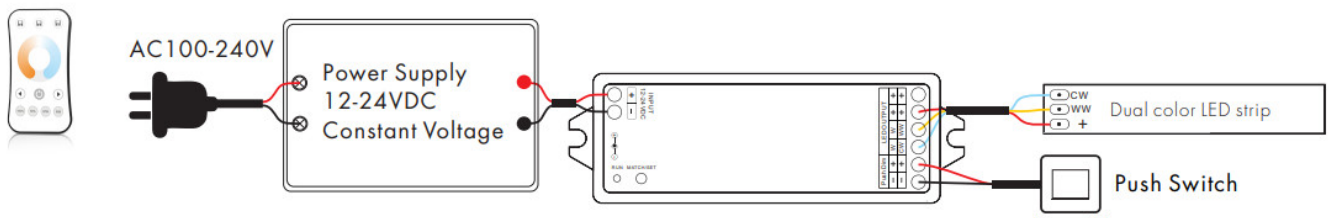
### For single color



### Dimming remote

Press and hold the match/set key for 8s, until the RUN LED indicator turns white, then release, the controller will become DIM type, then do smart con tuya APP, or short press the match key to match with dimming RF remote.

### For dual-color CCT



### CCT remote

Press and hold match/set key for 10s, until the RUN LED indicator turn yellow, then release, the controller will become CCT type, then do smart con tuya APP, or short press the match key to match with the CCT RF remote.

Note:

1. Users can connect a constant voltage power supply or power adapter as power input.
2. Press and hold the Match/Set key for 2s, and switch 2 kinds of light type in sequence.
3. Switch off the power, then switch on the power, and repeat again. Immediately short-press the match key 3 times, and the light on/off time will change between 3s and 0.5s.
4. For CCT light, continuous power on and off will change 3 levels of color temperature (WW, NW, and CW) in sequence.

### Push Dim

DIM Single color	Click	ON/OFF
	Double Click	Turn on at 100% or 10%(night light) and vice-versa
	Long press(>1s) from OFF	Dimming UP/DOWN
	Long press(>1s) from ON	Dimming UP/DOWN
CCT Dual Color	Click	ON/OFF
	Double Click	Turn on at 100% or 10%(night light) and vice-versa
	Long press(> 1 s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)
	Long press(>1s) from ON	Dimming UP/DOWN

## Tuya APP network connection

Press and hold the Match/Set key for 5s, or push twice the Match/Set key fastly, or when press and hold the Match/Set key for 8 or to set 2 kinds of light types:

Clear the previous network connection, enter config mode, the purple LED indicator fast flashes, and the output LED will flash 10 times.

If the Tuya APP network connection succeeds, the RUN LED indicator will stop flashing purple, and turn the corresponding light type color (White: DIM, Yellow: CCT).

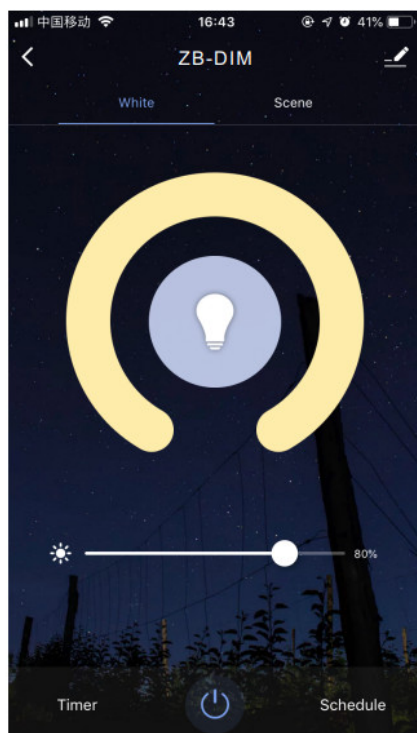
and in Tuya APP, you can find ZB-DIM or ZB-CCT device

Press and hold the Match/Set key for 2s:

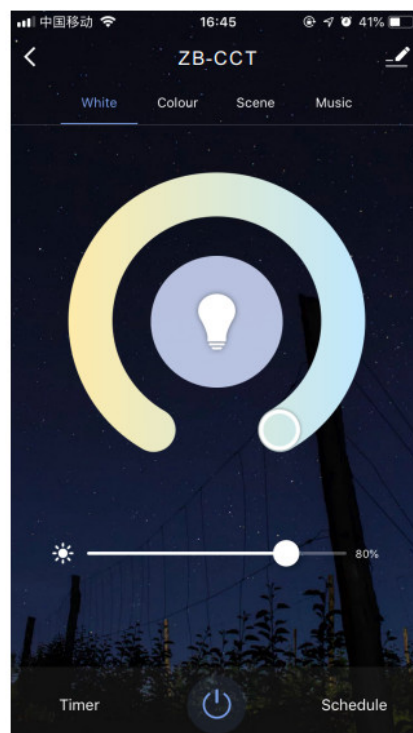
Switch 2 kinds of light type in sequence, notice this operation does not automatically clear the previous network connection.

Repeat power on and off 5 consecutive times, also clear the previous network connection, and enter config mode, and the output LED will flash 10 times.

## Tuya APP interface



DIM



CCT

DIM:

Touch the brightness slider to adjust brightness.

CCT:

Touch the color wheel to adjust the color temperature.

Touch the brightness slider to adjust brightness.

## **WZ1 match remote control (Optional)**

End users can choose suitable match/delete ways. Two options are offered for selection:

### **Use the WZ1's Match key**

Match:

Short press the match key of WZ1, and immediately press the on/off key (single zone remote) or zone key (multiple zones remote) on the remote.

The LED indicator fast flash a few times means the match is successful.

Delete:

Press and hold the match key of WZ1 for 15s to delete all matches,

The LED indicator fast flash a few times means all matched remotes were deleted.

### **Use Power Restart**

Match:

Switch off the power of WZ1, then switch on the power, and repeat again.

An immediately short press on/off key (single zone remote) or zone key (multiple zones remote) 3 times on the remote.

The light blinks 3 times means the match is successful.

Delete:

Switch off the power of WZ1, then switch on the power, and repeat again.

An immediately short press on/off key (single zone remote) or zone key (multiple zones remote) 5 times on the remote.

The light blinks 5 times means all matched remotes were deleted.

## **WZ1 works as a ZigBee-RF converter to match RF LED controller or dimming driver**

The end users can choose suitable match/delete ways. Two options are offered for selection:

### **Use the controller's Match key**

Match:

Short press the match key of the controller, and immediately press the on/off key on the Tuya APP.

The LED indicator fast flash a few times means the match is successful.

Delete:

Press and hold the match key of the controller for 5s, The LED indicator fast flash a few times means the match was deleted.

### **Use Power Restart**

Match:

Switch off the power of the controller, then switch on the power, and repeat again.

An immediately short press on/off key 3 times on the Tuya APP.

The light blinks 3 times means the match is successful.


Delete:

Switch off the power of the controller, then switch on the power, and repeat again.

Immediately short press the on/off key 5 times on the Tuya APP.  
The light blinks 5 times means the match was deleted.

# SKYDANCE

## Documents / Resources

	<p><a href="#">SKYDANCE WZ1 2CH LED Controller Mechanical Structures</a> [pdf] User Manual WZ1 2CH LED Controller Mechanical Structures, WZ1, 2CH LED Controller Mechanical Structures, LED Controller Mechanical Structures, Controller Mechanical Structures, Mechanical Structures, Structures</p>
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