Manuals+ — User Manuals Simplified.

IEDYi Lighting WZ1 ZigBee and RF 2 Ch LED Controller User Manual

Contents

IEDYi Lighting WZ1 ZigBee and RF 2 Ch LED Controller

Features

- Used to control single color or color temperature LED strip.
- DC power socket input and 2-channel constant voltage output.
- Tuya APP cloud control, support on/ott, color temperature and brightness adjust, delay turn on/ott light, timer run, scene edit, and music play function.
- Voice control, support amazon ECHO and ImallGenie smart speaker.
- Match with RF 2.4G remote control optional.
- User need set the light to type by press the key before the tuya APP network connection and matching the RF remote of the same light type.
- Each WZl 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/ott and O-100% dimming function.
- Light on/off fade time 3s selectable.

Technical Parameters

Input and Output

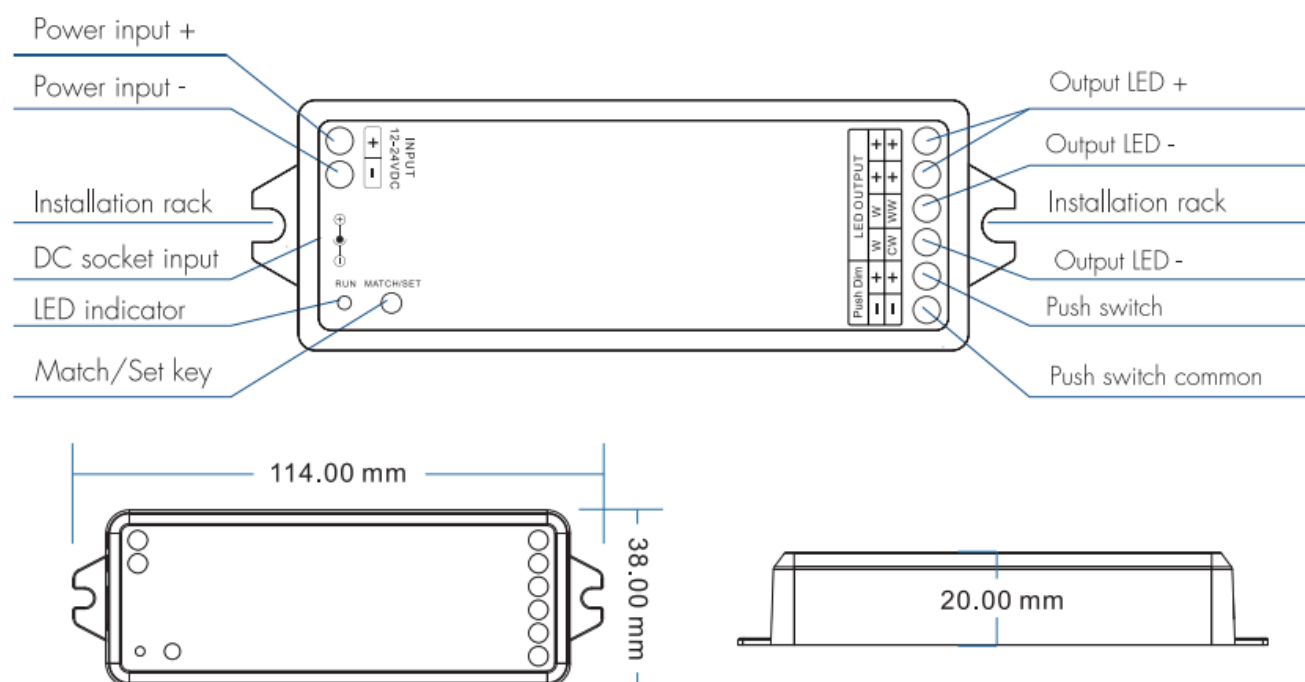|	
Input voltage	12-36VDC
Input current	10.5A
Output voltage	2 x (12-36)VDC
Output current	2CH,5A/CH
Output power	2 x (60-180)W
Output type	Constant voltage

Dimming data

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

Safety and EMC

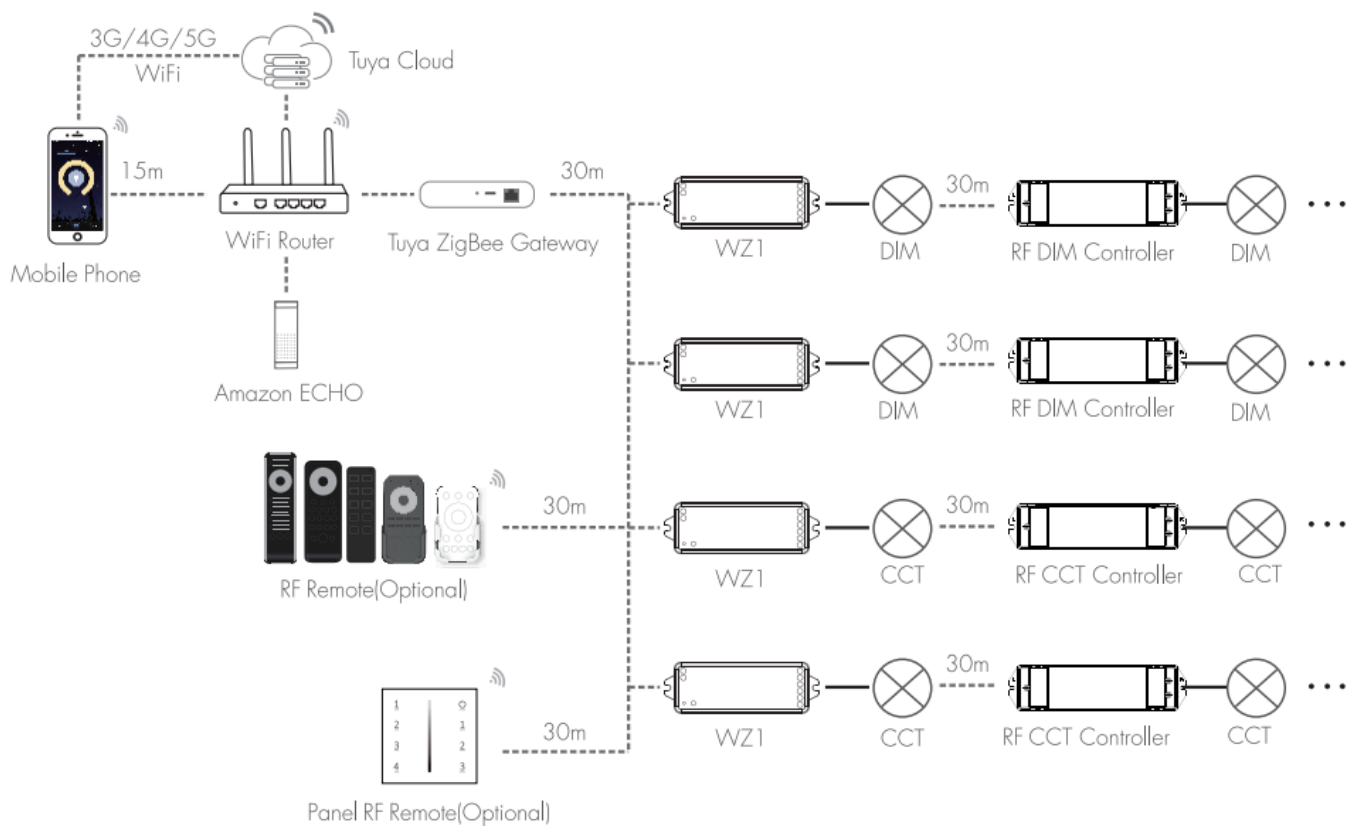|	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

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

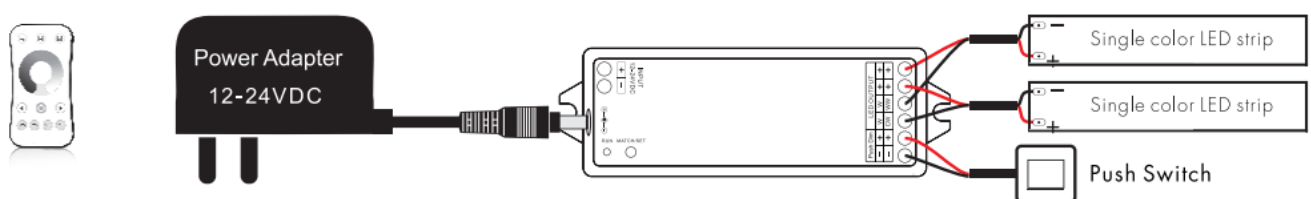## Mechanical Structures and Installations

System wiring

Note:

1. The 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.
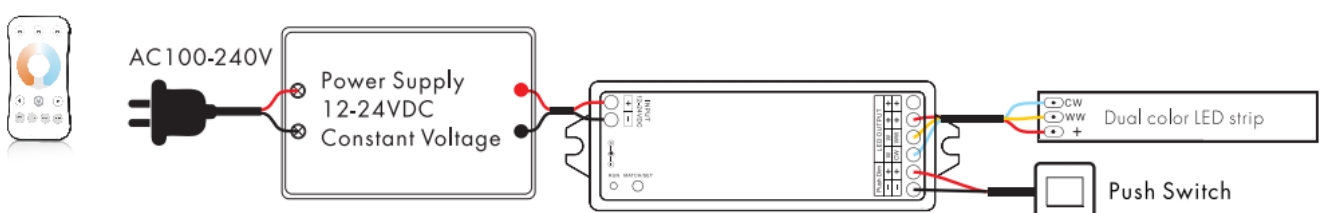
Wiring Diagram

For single color

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

For dual-color CCT

CCT remote

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

Note: .

1. Users can connect a constant voltage power supply or power adapter as power input.
2. Switch out the power, then switch on the power, and repeat again. Immediately short-press the match key 3 times, and the light on/ott time will change between 3s and O.5s.
3. For CCT light, continuous power on and ott will change 3 levels of color temperature (WW, NW, and CW) in sequence.
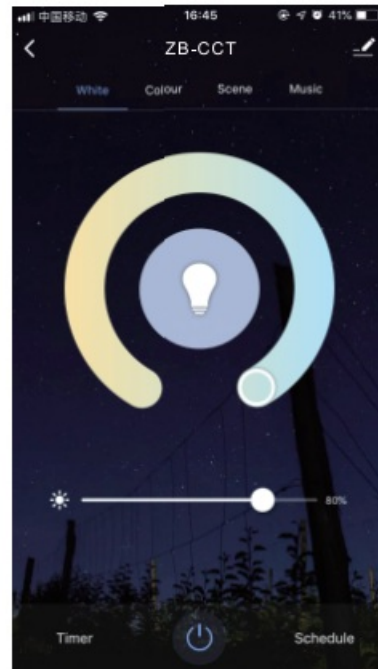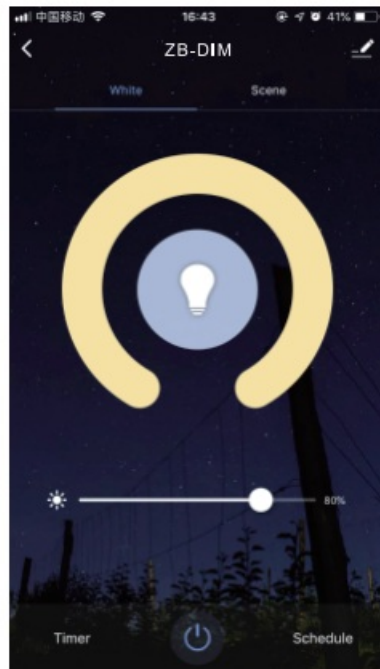
Push Dim

	Click	ON/OFF
DIM Single color	Double Click	Turn on ot 1 ((1% or 1!)%(night light) and vice-verso
	long press(> l s) from OFF	Dimming UP/DOWN
	long press(> l s) from ON	Dimming UP/DOWN
CCT Duol Color	Click	ON/OFF
	Double Click	Turn on at 11f1% or]l)%(night light) and vice-verso
	Long press(> 1 s) from OFF	Color temperature UP/DOWN !turn off and turn on to return dimming)
	long press(> 1 s) from ON	Dimming UP/DOWN

Tuya APP network connection

- Press and hold the Match/Set key for 2s, reset the ZigBee network, and the LED indicator turn cyan.
- 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 1Os to set 2 kinds of light type:
- Clear the previous network connection, enter config mode, the purple LED indicator tast trash, and the output LED will flash 10 times.
- Repeat power on and ott tor 5 consecutive times, also clear the previous network connection, and enter config mode the output LED will flash 10 times.
- If Tuya APP network connection succeeds, the RUN LED indicator will stop trash 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

Tuya APP interface

- **DIM**

  Touch the brightness slider to adjust brightness.

- **CCT:**

  Touch the color wheel to adjust the color temperature. Touch the brightness slide to adjust brightness.

WZ1 match remote control (Optional)
End users can choose suitable match/delete ways. Two options are offered for selection:

Use the WZ1l'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 match, The LED indicator fast flash a tew time 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/ott key (single zone remote or zone key (multiple zones remote) 3 fimes 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/ott 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.

Wii work as a ZigBee-RF converter to match RF LED controller or dimming driver
The end user can choose suitable match/delete ways. lwo options are uttered for selection

Use the controller's Match key
Match:
Short press the match key of the controller, and immediately press on/ott key on the Tluya APP. The LED indicator fast flash a few times means the match is successful.
Delete:
Press and hold the match key of the controller tor 5s, The LED indicator fast flash a few times means the match was deleted.
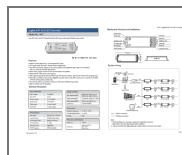
Use Power Restart
Match:
Switch off the power to the controller, then switch on the power, and repeat again. An immediately short press on/ott key 3 times on the Tuya APP. The light blinks 3 times means the match is successful.
Delete:
Switch off the power of the controller, then switch on the power, and repeat again. An immediately short press on/off key 5 times on the Tuya APP the light blinks 5 times means the match was deleted.

Documents / Resources

	IEDYi Lighting WZ1 ZigBee and RF 2 Ch LED Controller [pdf] User Manual WZ1 ZigBee and RF 2 Ch LED Controller, WZ1, ZigBee and RF 2 Ch LED Controller, 2 Ch LED Controller, LED Controller, Controller