

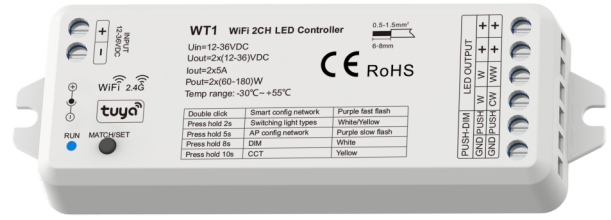
# WiFi & RF 2CH LED Controller

## Model No.: WT1

Tuya APP cloud control/Voice control/2 Channels/Push-Dim/DC power socket input/Wireless remote control

### Features

- Used for control single color or color temperature LED strip.
- DC power socket input and 2 channel constant voltage output.
- Tuya smart APP cloud control, support on/off, color temperature and brightness adjust, delay turn on/off light, timer run, scene edit function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu smart speakers.
- Match with RF 2.4G remote control optional.
- User need set light type by press key before Tuya smart APP network connection and match RF remote of the same light type.
- Each WT1 controller can also work as WiFi-RF converter, then use Tuya smart APP to control one or more RF LED controller or RF LED dimming driver synchronously.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.

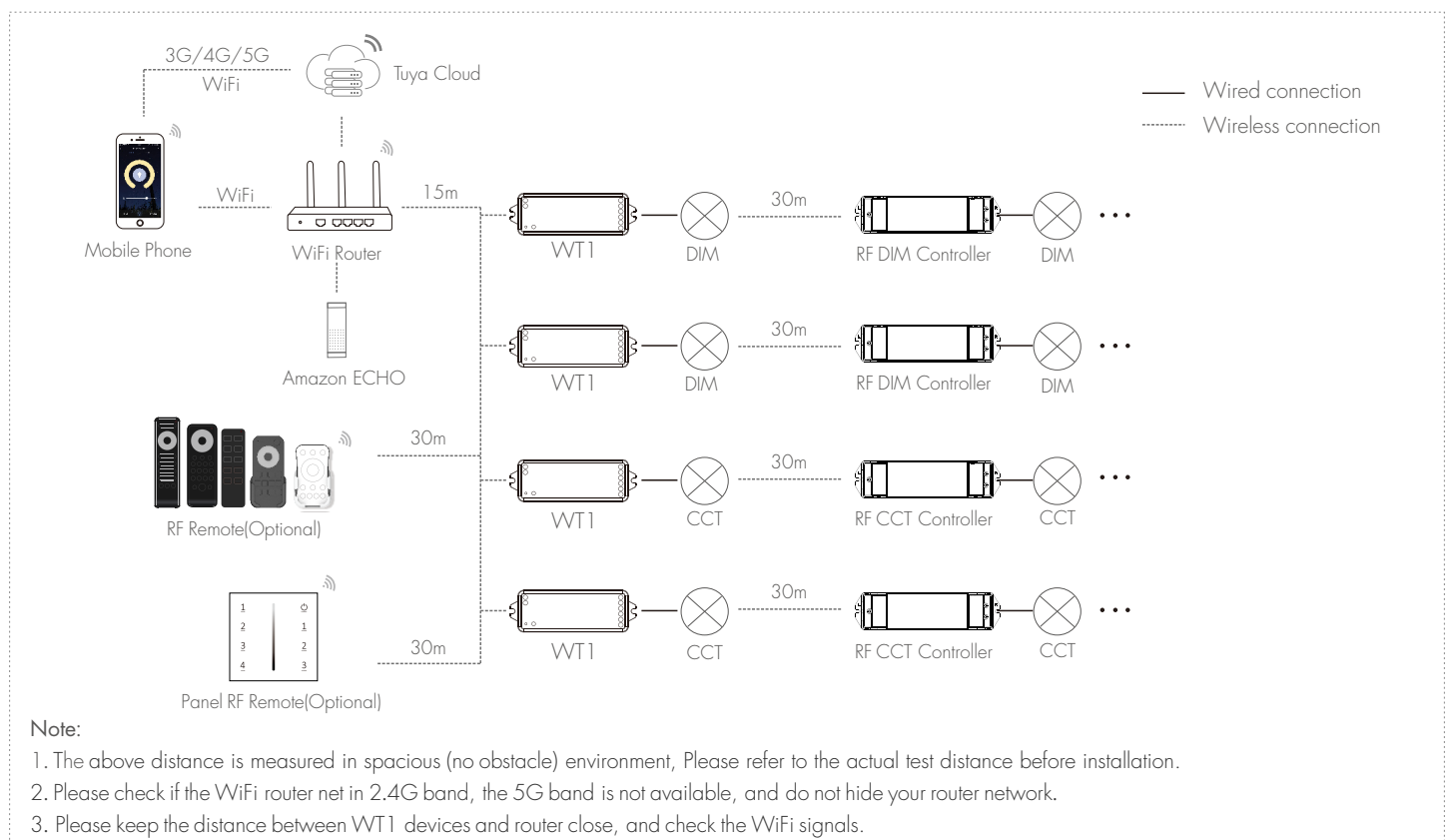


CE RoHS EMC RED

### Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-36VDC	Input signal	Tuya APP + RF 2.4GHz + Push Dim	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Input current	10.5A	Control distance	30m(Barrier-free space)	Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Output voltage	2 x (12-36)VDC	Dimming gray scale	4096 (2 <sup>12</sup> ) levels	Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
Output current	2CH,5A/CH	Dimming range	0 -100%	Certification	CE,EMC,RED
Output power	2 x (60-180)W	Dimming curve	Logarithmic	<b>Warranty and Protection</b>	
Output type	Constant voltage	PWM frequency	2000Hz (default)	Warranty	5 years
Environment		Package		Protection	Reverse polarity Over-heat Short circuit
Operation temperature	T <sub>a</sub> : -30°C ~ +55°C	Size	L120 x W43 x H27mm		
Case temperature (Max.)	T <sub>c</sub> : +85°C	Gross weight	0.073kg		

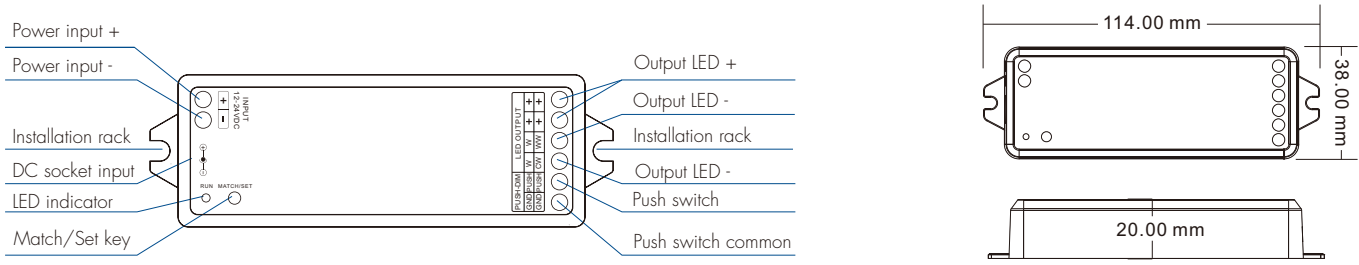
### System Wiring



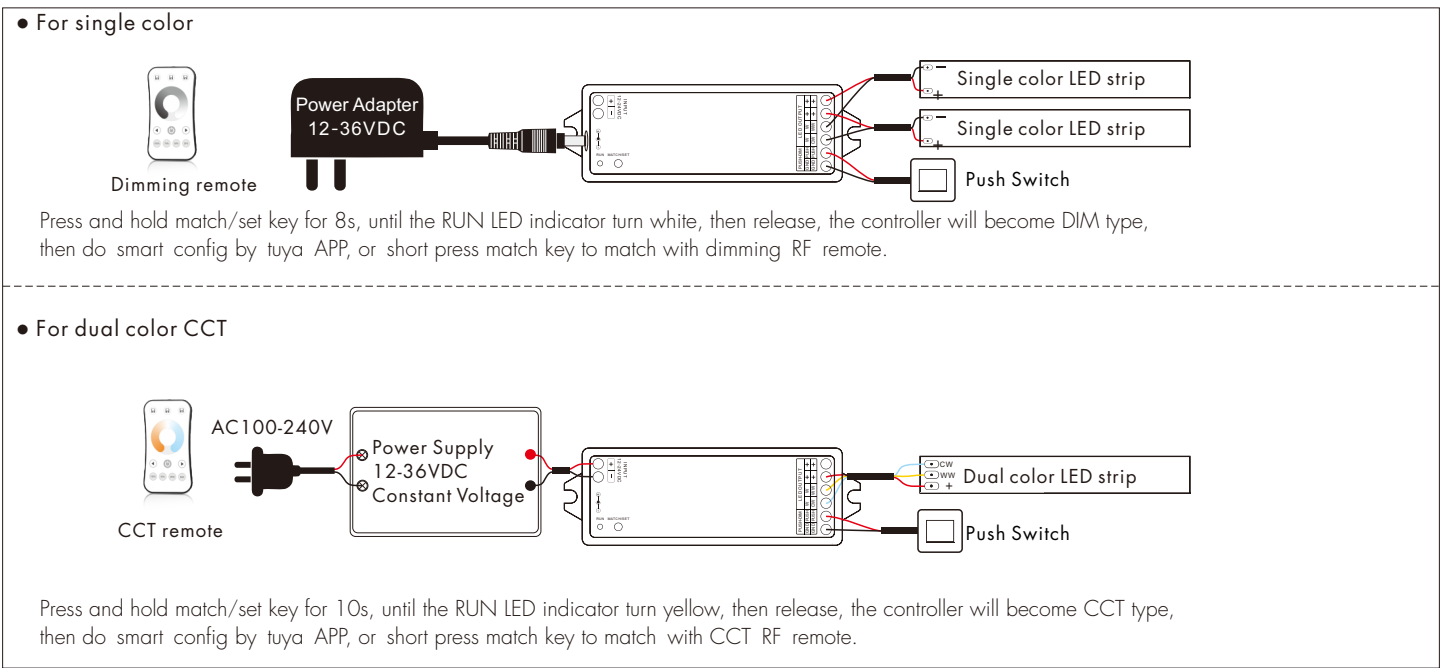
#### Note:

1. The above distance is measured in spacious (no obstacle) environment, Please refer to the actual test distance before installation.
2. Please check if the WiFi router net in 2.4G band, the 5G band is not available, and do not hide your router network.
3. Please keep the distance between WT1 devices and router close, and check the WiFi signals.

Mechanical Structures and Installations



Wiring Diagram



- Note:
- 1. User can connect constant voltage power supply or power adapter as power input.
  - 2. Press and hold Match/Set key for 2s, switch 2 kinds light type in sequence.
  - 3. Switch off the power, then switch on power, repeat again.
  - Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.
  - 4. For CCT light, continuous power off and on will change 3 levels 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(>1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)
	Long press(>1s) from ON	Dimming UP/DOWN

FCC Warning

15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement:

- 1.This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2.This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

## Tuya Smart APP Network Connection

Please download the corresponding tuya/smart life app according to your region.

Push twice Match/Set key fastly, or when press and hold Match/Set key for 8 or 10s to set 2 kinds light type:  
Clear previous network connection, enter Smart config mode, the purple LED indicator flash fastly,  
the output LED will flash 10 times.

Press and hold Match/Set key for 2s:

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

Press and hold Match/Set key for 5s:

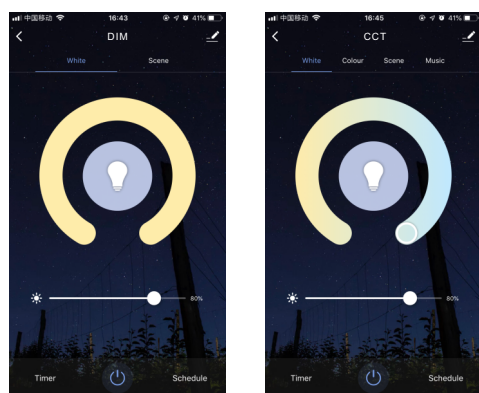
Clear previous network connection, enter AP config mode, the purple LED indicator flash slowly. If smart config failed, please try AP config.

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

If Tuya smart APP network connection succeed, the RUN LED indicator will stop flash purple, and turn corresponding light type color (White: DIM, Yellow: CCT).  
and in Tuya smart APP, you can find DIM or CCT device.



## Tuya Smart APP Interface



DIM

CCT

DIM:

Touch brightness slide to adjust brightness.

CCT:

Touch color wheel to adjust color temperature.

Touch brightness slide to adjust brightness.

## WT1 Match Remote Control (Optional)

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

### Use the WT1's Match key

Match:

Short press match key of WT1,  
immediately press on/off key (single zone remote)  
or zone key (multiple zone remote) on the remote.  
The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key of WT1 for 15s to delete all match,  
The LED indicator fast flash a few times means all matched remotes  
were deleted.

### Use Power Restart

Match:

Switch off the power of WT1, then switch on power, repeat again.  
Immediately short press on/off key (single zone remote)  
or zone key (multiple zone remote) 3 times on the remote.  
The light blinks 3 times means match is successful.

Delete:

Switch off the power of WT1, then switch on power, repeat again.  
Immediately short press on/off key (single zone remote)  
or zone key (multiple zone remote) 5 times on the remote.  
The light blinks 5 times means all matched remotes were deleted.

## WT1 Work as WiFi-RF Converter to Match RF LED Controller or Dimming Driver

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

### Use the controller's Match key

Match:

Short press match key of the controller,  
immediately press on/off key on the Tuya APP.  
The LED indicator fast flash a few times means match is successful.

Delete:

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

### Use Power Restart

Match:

Switch off the power of the controller, then switch on power, repeat again.  
Immediately short press on/off key 3 times on the Tuya APP.  
The light blinks 3 times means match is successful.

Delete:

Switch off the power of the controller, then switch on power, repeat again.  
Immediately short press on/off key 5 times on the Tuya APP.  
The light blinks 5 times means match was deleted.