

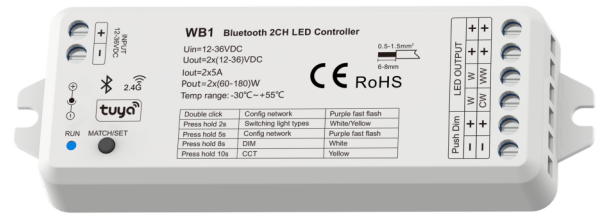
Bluetooth & RF 2CH LED Controller

Model No.: WB1

Tuya APP cloud 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 APP cloud control, support on/off, color temperature and brightness adjust, delay turn on/off light, timer run, scene edit and music play function.
- Voice control, support amazon ECHO and TmallGenie smart speaker.
- Match with RF 2.4G remote control optional.
- User need set light type by press key before Tuya APP network connection and match RF remote of the same light type.
- Each WB1 controller can also work as Bluetooth-RF converter, then use Tuya 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.

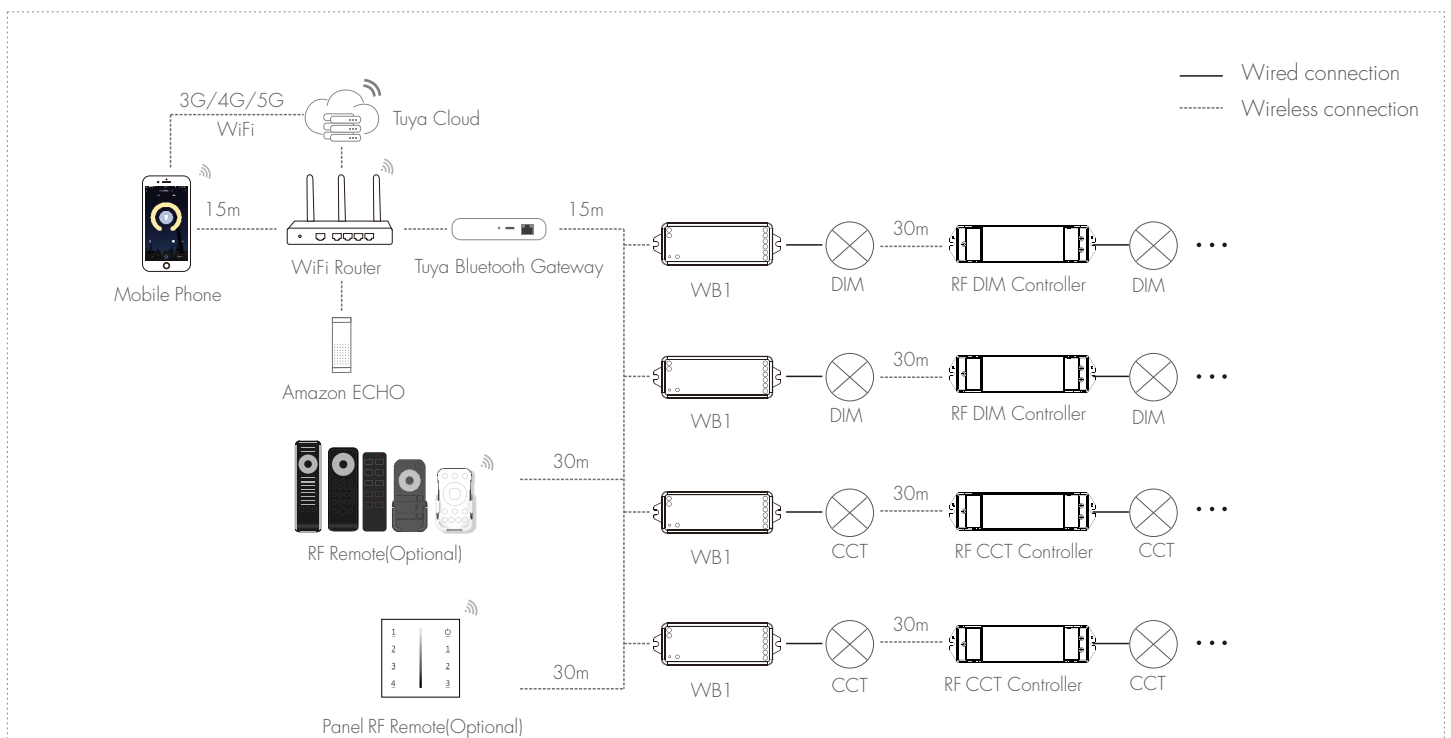


FC CE RoHS EMC LVD RED

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(LVD)	EN 62368-1:2020+A11:2020
Output voltage	2 x (12-36)VDC	Dimming gray scale	4096 (2^12) levels	Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Output current	2CH, 5A/CH	Dimming range	0 -100%	Certification	CE,EMC,LVD,RED
Output power	2 x (60-180)W	Dimming curve	Logarithmic	Warranty and Protection	
Output type	Constant voltage	PWM frequency	2000Hz (default)	Warranty	5 years
Environment		Package		Protection	Reverse polarity Over-heat Short circuit
Operation temperature	Ta: -30°C ~ +55°C	Size	L120 x W43 x H35mm		
Case temperature (Max.)	Tc: +85°C	Gross weight	0.055kg		

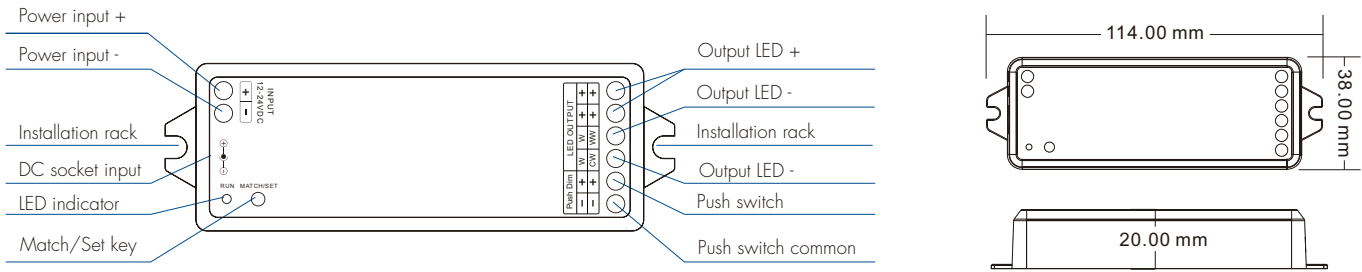
System wiring



Note:

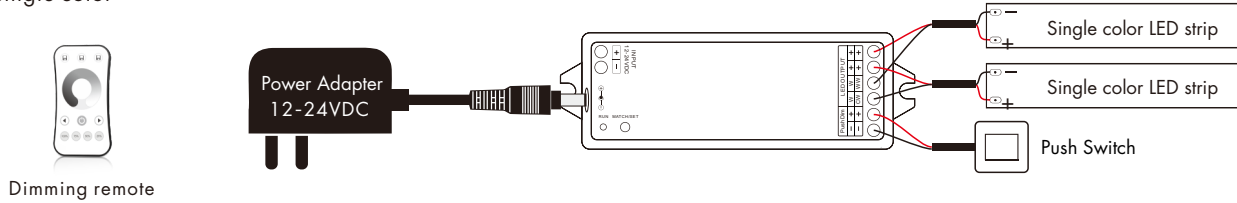
1. The above distance is measured in spacious (no obstacle) environment, please refer to the actual test distance before installation.
2. Users can also use the Tuya Bluetooth gateway to realize remote control and voice control.

Mechanical Structures and Installations



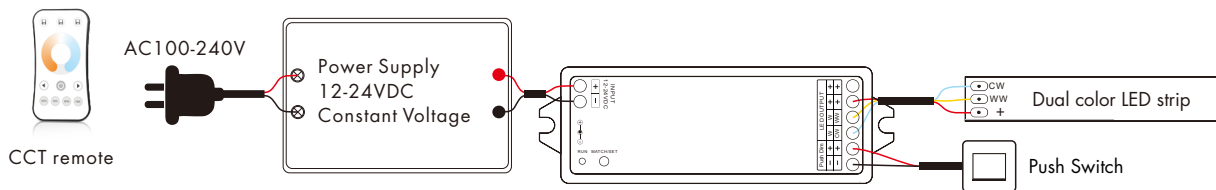
Wiring Diagram

• For single color



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

• For dual color CCT



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 config by tuya APP, or short press match key to match with CCT RF remote.

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 (WWW, 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

Tuya APP network connection

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.

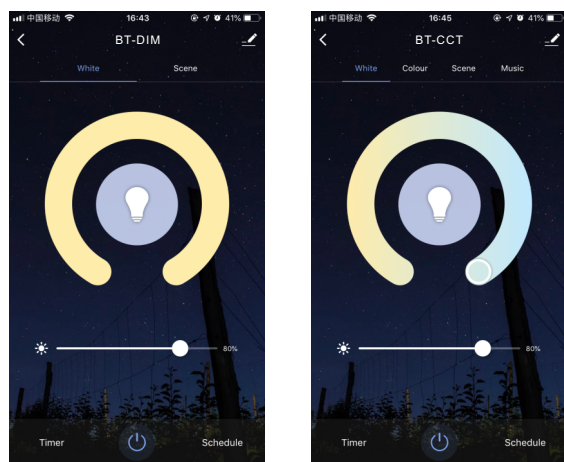
Press and hold Match/Set key for 5s, or push twice Match/Set key fastly,
or when press and hold Match/Set key for 8 or 10s to set 2 kinds light type:

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

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

If Tuya 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 APP, you can find BT-DIM or BT-CCT device .

Tuya 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.

WB1 match remote control (Optional)

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

Use the WB1's Match key

Match:

Short press match key of WB1,
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 WB1 for 15s ,
The LED indicator fast flash a few times means all matched remotes
were deleted.

Use Power Restart

Match:

Switch off the power of WB1, 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 WB1, 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.

WB1 work as Bluetooth-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.