



# WZS1,WZS2,WZS3,WZS4,WZS5

## ZigBee 3.0 Constant voltage LED Controller



The ZigBee 3.0 Constant Voltage LED Controller Series (WZS1–WZS5) delivers smart, reliable, and versatile lighting control for RGB, RGBW, RGB+CCT, tunable white, or single-color LED strips. Designed with a wide range of channel options and DC power socket input, each controller provides stable constant-voltage output for smooth and responsive lighting performance. Compatible with Tuya and Philips Hue ecosystems, the series supports cloud control, color and brightness tuning, scene creation, scheduling, music sync, and advanced features like sleep/wake routines and biorhythm lighting. Built for modern smart homes, it seamlessly integrates with Amazon Alexa, Google Assistant, Tmall Genie, and Xiaodu, enabling effortless voice control. With support for ZigBee mesh networking up to 15 hops, these controllers offer strong signal reliability and can be paired with ZigBee remote or scene panel options, making them a flexible and future-ready solution for any smart lighting installation.

### Features

Used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.

DC power socket input and 1/2/3/4/5 channel constant voltage output.

Tuya APP cloud control, support color and brightness adjust, delay turn on/off, timer run, scene edit, music play, sleep wake-up and biorhythms function.

Philips HUE APP control by connect with Philips HUE bridge

Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu smart speakers.

Can relay and route to each other, up to 15 hops.

Match with Zigbee 3.0 remote or scene panel control optional



CE RoHS emc RED

## Technical Parameter

### ZigBee 3.0 Constant voltage LED Controller

Engineered for constant-voltage LED applications, this ZigBee 3.0 controller series provides accurate power output, high current capacity, and optimized thermal stability.

|                   | Clario 1     | Clario 2     | Clario 3     | Clario 5     | Clario 4     |
|-------------------|--------------|--------------|--------------|--------------|--------------|
| Light type        | Single Color | CCT          | RGB          | RGB+CCT      | RGBW         |
| Output ch.        | 2            | 2            | 3            | 5            | 4            |
| Input voltage     | 12-36VDC     | 12-36VDC     | 12-24VDC     | 12-24VDC     | 12-24VDC     |
| Input current     | 10.5A        | 10.5A        | 12.5A        | 15.5A        | 12.5A        |
| Output voltage    | 12-36V       | 12-36V       | 12-24V       | 12-24V       | 12-24V       |
| Output current    | 2CH,5A/CH    | 2CH,5A/CH    | 3CH,4A/CH    | 5CH,3A/CH    | 4CH,3A/CH    |
| Output Power      | 2x(60-180)W  | 2x(60-180)W  | 3x(48-96)W   | 5x(36-72)W   | 4x(36-72)W   |
| PWM Frequency     | 4KHz         | 4KHz         | 2KHz         | 2KHz         | 2KHz         |
| Wireless Protocol | Zigbee       | Zigbee       | Zigbee       | Zigbee       | Zigbee       |
| Dimension         | 111*98.75*20 | 111*98.75*20 | 111*98.75*20 | 111*98.75*20 | 111*98.75*20 |

### Dimming Data

|                     |                                 |
|---------------------|---------------------------------|
| Input signal:       | Zigbee 3.0                      |
| Control distance    | 30m (Barrier-free space)        |
| Dimming gray scale: | 65536 (2 <sup>16</sup> ) levels |
| Dimming range       | 0-100%                          |
| Dimming curve       | Logarithmic                     |

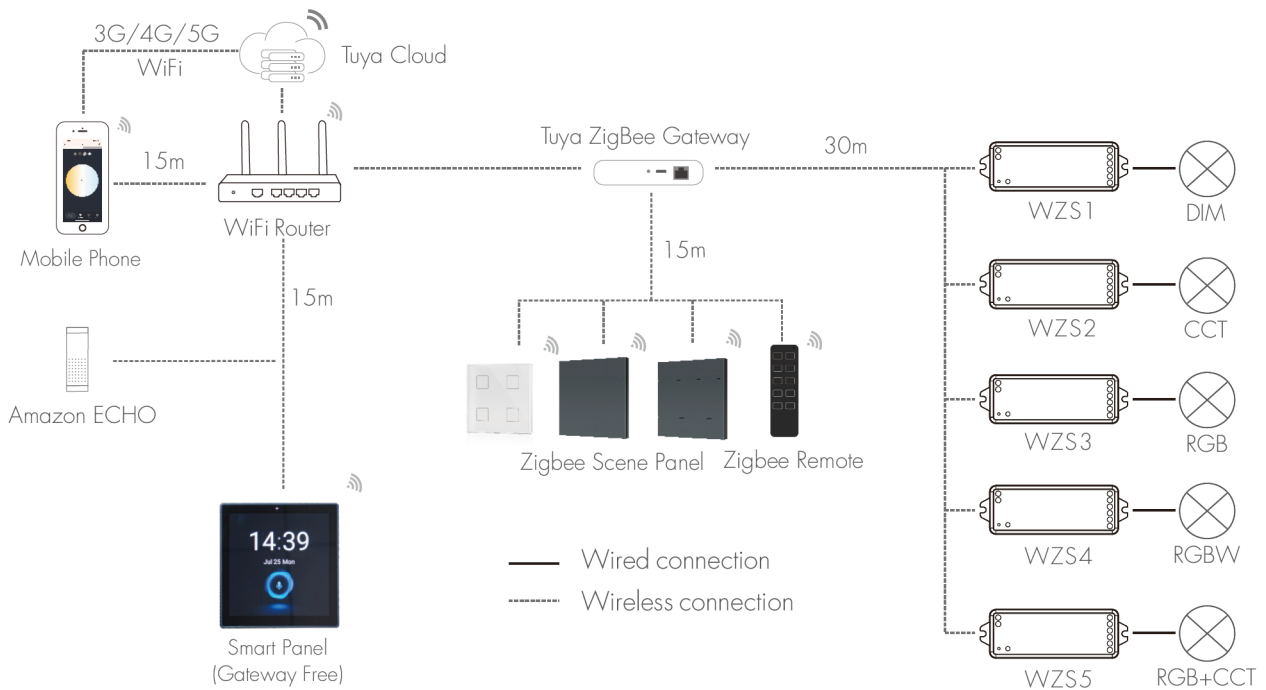
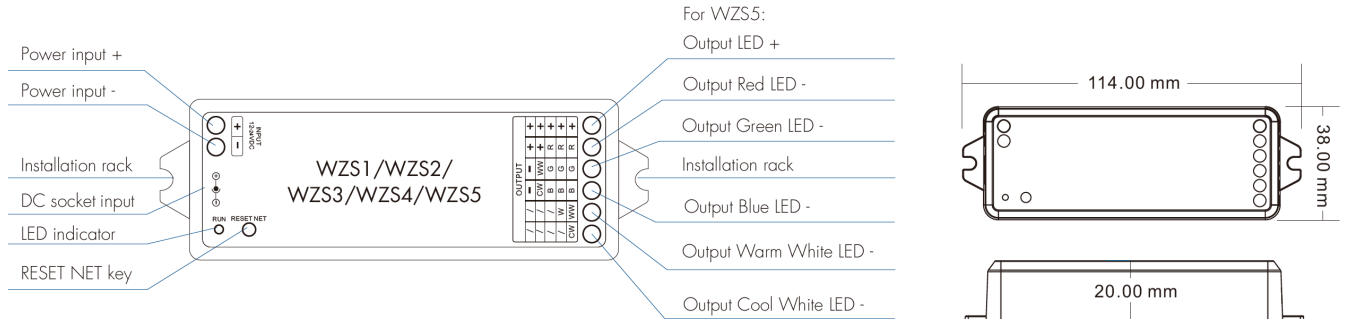
### Package & Environment

|                         |                     |
|-------------------------|---------------------|
| Size                    | L120 × W43 × H27 mm |
| Gross weight            | 0.745 kg            |
| Operation temperature   | Ta: -30°C ~ +55°C   |
| Case temperature (Max.) | Tc: +85°C           |
| IP rating               | IP20                |

# Mechanical Structure & Instalation

## ZigBee 3.0 Constant voltage LED Controller

Detailed mechanical layout and wiring instructions for the ZigBee LED controller to ensure accurate installation and smooth system functionality.



### Note

The control distance stated above is measured in an open, unobstructed environment; actual performance may vary depending on the installation conditions, surrounding structures, or interference. For remote access and voice control features, users are required to connect through a Tuya ZigBee gateway, unless the smart panel already includes a built-in ZigBee gateway function. This ensures stable communication, smoother control, and optimal system performance.

# App Operating Instruction

## 1. Network Pairing

Download the Tuya APP and register an account, search and add the Tuya Zigbee gateway device.

Quickly press the "RESET NET" button five times or repeat power on and off five times to clear the previous network connection, enter pairing mode with the output light breathes blinking.

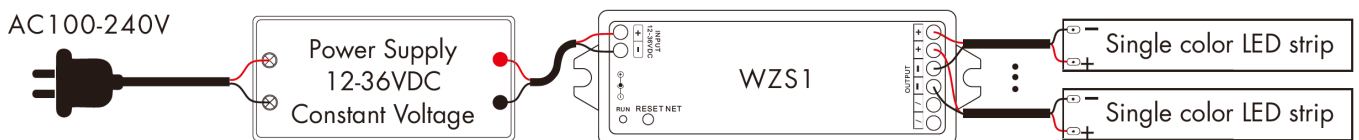
Under the gateway, search and add new device.

If the network connection is successful, you can find ZBS-DIM, ZBS-CCT, ZBS-RGB, ZBS-RGBW or ZBS-RGB+CCT devices in Tuya APP.

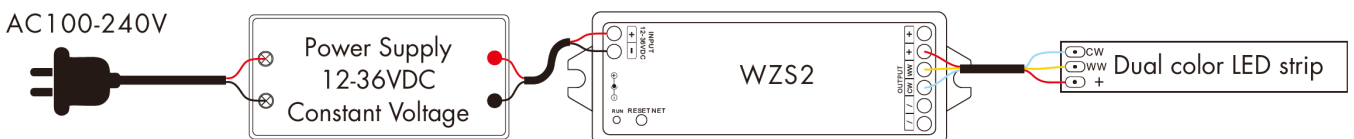
## 2. Wiring Diagram & App Interface

After pairing the light, click the device and change brightness and color by simply touch the slide bar and color wheel.

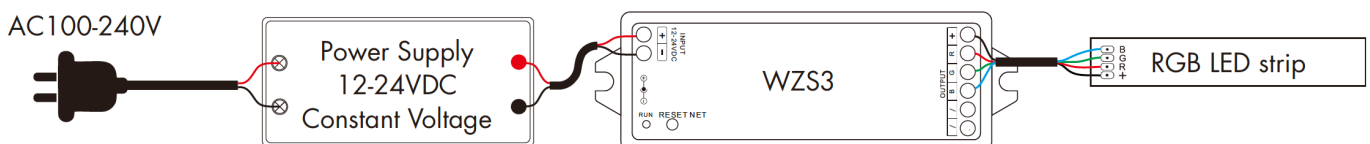
### A. Single Color Dimming



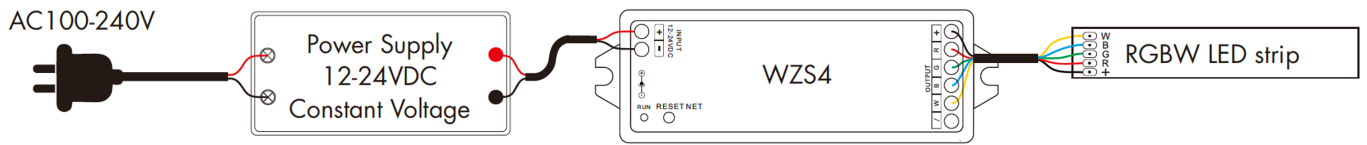
### B. CCT + Dimming



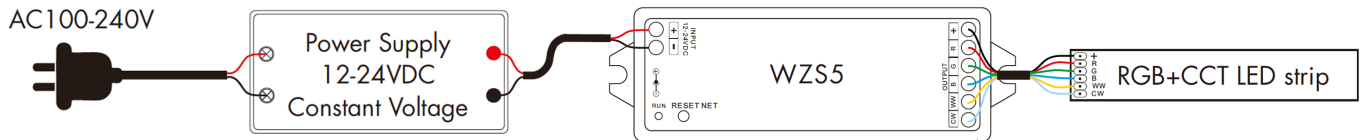
### C. RGB + Dimming



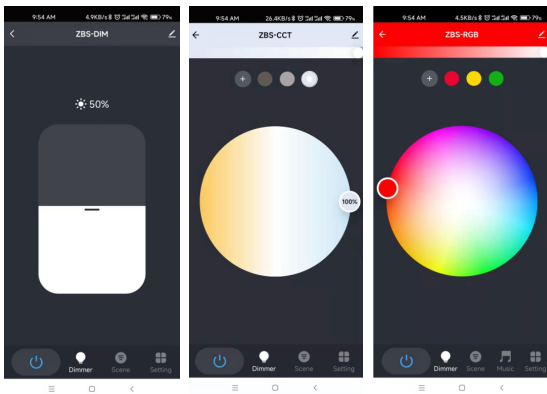
### D. RGBW + Dimming



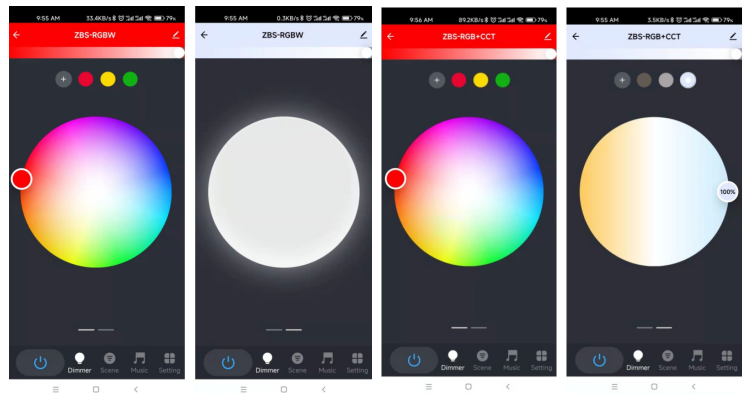
### E. RGBW + CCT + Dimming



### F. Tuya App Interface



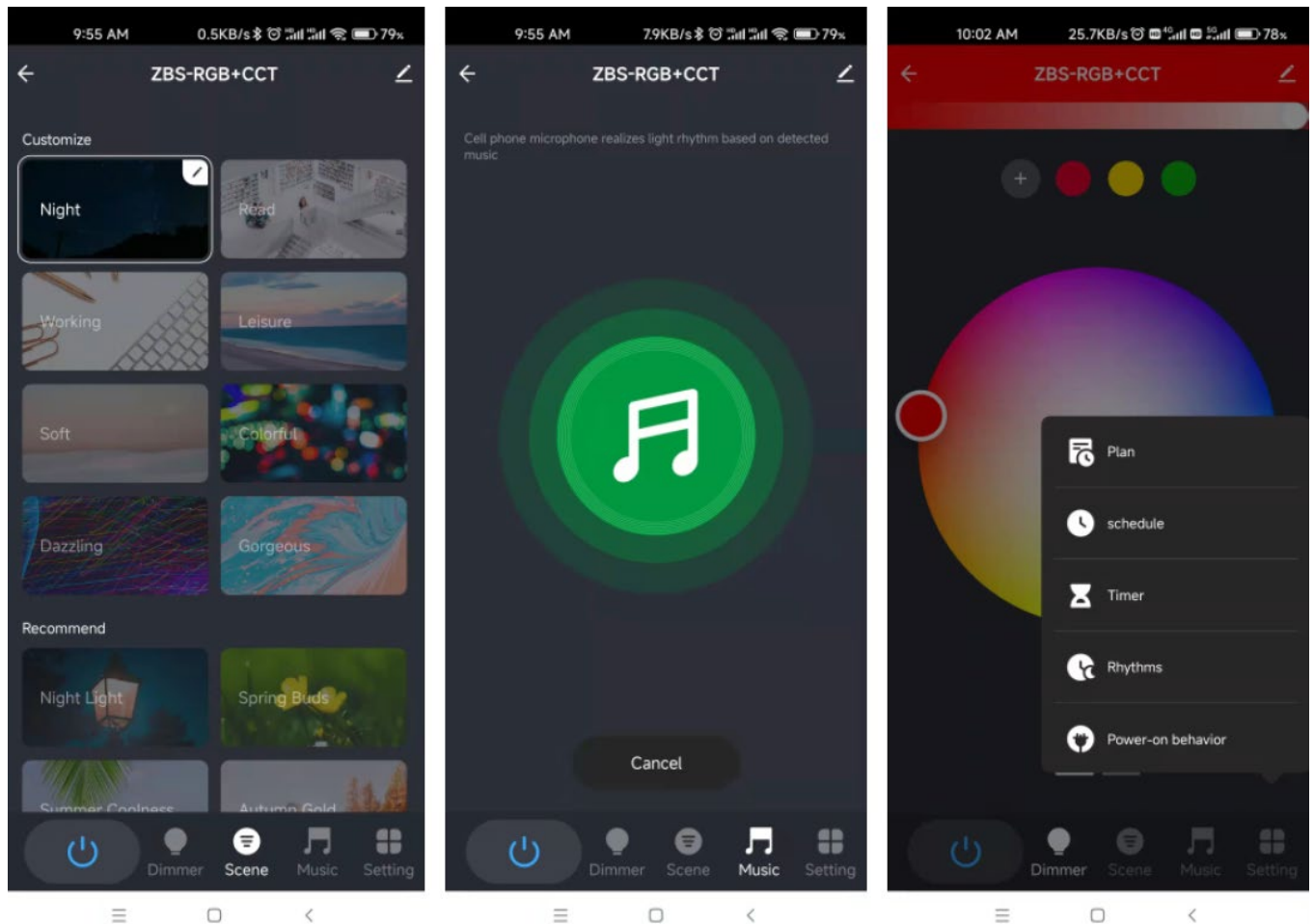
Single Color/CCT/RGB + Dimming  
App Interface



RGB+W / RGB+CCT + Dimming  
App Interface

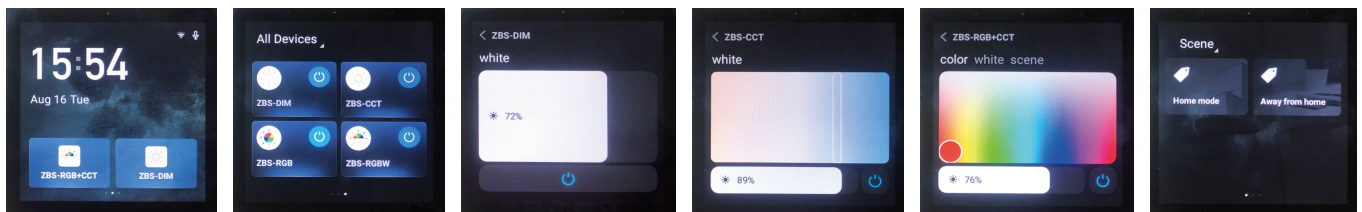
## G. Scene Control

In "Scene", there are 8 scenes that can be recalled or customized. In "Music", the music playback can use a smartphone music player or microphone as the music signal input. In "Setting", there are functions for Plan, Schedule, Timer, Biorhythms, and Power-on behavior.



## 3. Smart Panel Pairing & Interface

Connect the smart panel to the WiFi network and open the Tuya APP to scan the QR code for binding. On the Tuya APP, under the smart panel, you can search for and add one or more light devices. After adding the light devices, users can set scenes in the Tuya APP, and these scenes will automatically sync to the smart panel. Once everything is set successfully, users can control the lights using the touch color slide and directly recall scenes on the smart panel screen.



Main Screen Interface

Connected Device

Dimming Control

CCT Control

RGB/RGBW/  
RGB CCT Control

Scene Recall Interface



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