Bluetooth Gateway

Model No.: WG-B

Bluetooth Mesh gateway has a built-in highly integrated wireless
Wi-Fi module and a low-power wireless bluetooth module.
On TUYA Smart Life App, users can realize functions such as device adding,
reset, third-party control and Bluetooth (single point & Mesh)
group control, and match with a variety of Bluetooth 1-5 color constant
voltage LED controller, Bluetooth triac dimmer, Bluetooth 0/1-10V dimmer
or Bluetooth dimming LED driver to meet smart home applications.

CE RoHS [emc] LVD RED

Features

• Plug and play, easy to use.
• Integrated with WiFi and bluetooth single point & Mesh communication mode, achieve remote WiFi control and local bluetooth
  control.
• WiFi signal and bluetooth single point & Mesh signal are stable and reliable, can cover a wide area, preventing interference,
  and feature lower power consumption.
• To strengthen security, the device adopts industry-advanced encryption to transmit information on both WiFi and bluetooth terminal.
• The same local area network can connect multiple Bluetooth gateway via Smart Life App.
• long press reset key for 5s to clear previous connection, enter configure mode rapidly.

Technical parameters

1. Physical characteristics

Specification	Details
State indicator	Two LED (Wi-Fi+Bluetooth)
Operation key	One key (for resetting)
Input voltage	MicroUSB DC5V
Input current	<1A
Operation temperature	-10-55℃
Operation humidity	10%-90%RH(noncondensable)
Storage temperature	-20-60℃
Storage humidity	5%-90%RH(noncondensable)
Hardware port	One Micro-USB
Wireless technology	Wi-Fi 802.11 b/g/n Bluetooth single point&Mesh
Type of antennae	Built in on-board antenna

2.RF characteristics

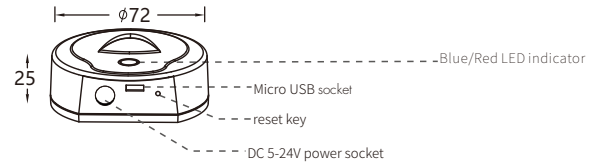| Specification	Wi-Fi	Bluetooth
Wireless frequency	2.400 ~2.4835GHz	2.400-2.480 GHz
Transmitting power	21dBm	7dBm
Signal channels	CH1-CH11	CH0-CH39
Transmitting rate	11b:1,2,5.5, 11(Mbps) 11g:6,9,12,18,24,36, 48,54(Mbps) 11n:HT20 MCS0~7 11n:HT40 MCS0~7	1Mbps (Bluetooth 4.2) 2Mbps (Bluetooth 5.0)

3.Network performance

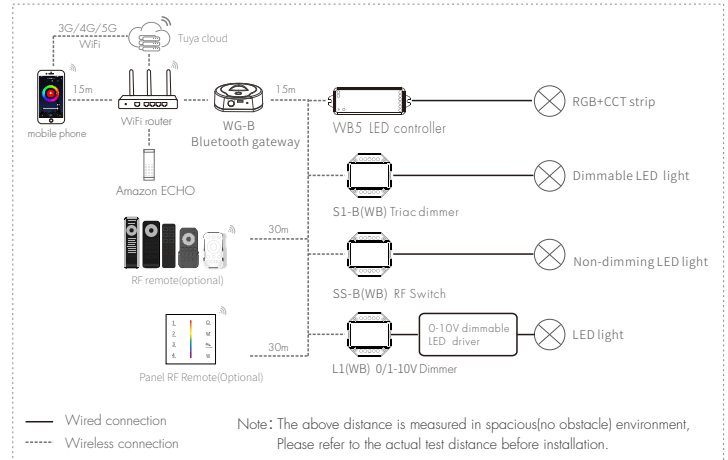| Specification	Details
Wireless encryption	AES 128bit Encryption
	WPA-PSK/WPA2-PSK，WPA/WPA2 Security mechanism
Network administration	App remote configuration
	Wi-Fi module firmware upgrade
	Bluetooth module firmware upgrade
The number of connecting sub-devices	Max Node =64

4. State indicator & reset

Gateway is waiting for connect	Blue LED indicator always on, red LED indicator flashing slowly
Connecting with APP	Blue LED indicator always on, red LED indicator off
Gateway has been connected	Blue LED indicator always on, red LED indicator always on
Searching for device	Blue LED indicator flashes slowly, red LED indicator is always on
Method for resetting	After long press reset key for 5s, then red LED indicator flashes quickly.

Mechanical structure and installation

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Blue/Red LED indicator
Micro USB socket
reset key
DC 5-24V power socket

System Wiring

3G/4G/5G
WiFi
Tuya cloud
1.5m
mobile phone
WiFi router
1.5m
WG-B Bluetooth gateway
WB5 LED controller
RGB+CCT strip
Amazon ECHO
S1-B(WB) Triac dimmer
Dimmable LED light
30m
RF remote(optional)
SS-B(WB) RF Switch
Non-dimming LED light
30m
0-10V dimmable LED driver
LED light
Panel RF Remote(Optional)
L1(WB) 0/1-10V Dimmer

—— Wired connection
----- Wireless connection

Note: The above distance is measured in spacious(no obstacle) environment,
Please refer to the actual test distance before installation.
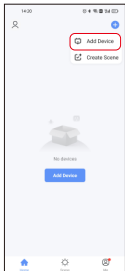
Preparation for usage

Download and open APP

In the App store or Google play, search for "Smart Life " or scan the QR code on the manual to download and then install the smart App.
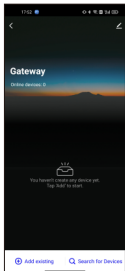
Operation

Tuya APP cloud controol

1. Power on the gateway.
2. Make sure that the gateway's red LED indicator is blinking (If the indicator is in other status, long press reset key until indicator flash).
3. Open the Wi-Fi, at this time, mobile phone and gateway are in the same local area network.
4. Open Smart Life app, tap"+" in the upper right corner, add Bluetooth gateway via searching automatically.
5. After add gateway successfully, tap "Gateway" icon on home page, then add sub-devices according to prompts in the App.
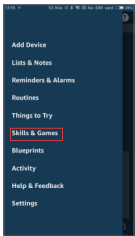
tap"+", prepare for adding devices

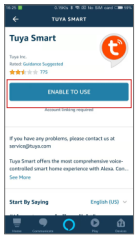tap"Gateway" icon on home page, enter operation interface of Gateway

add other sub-devices via searching automatically

Voice control (Amazon ECHO)

1. Power on the gateway.
2. Make sure that the gateway's red LED indicator is blinking (If the indicator is in other status, long press reset key until indicator flash).
3. Open the WiFi, bluetooth and location of your phone.
4. Open Smart Life app, tap"+" in the upper right corner, add Bluetooth gateway via searching automatically.
5. After add gateway successfully, tap "Gateway" icon on home page, then add sub-devices according to prompts in the App.
6. Make sure Amazon ECHO is powered on.
7. Connect Amazon ECHO to Internet via Amazon Alexa App.
8. Tap "Skills&Games" in the Alexa app menu.
9. Then search for "Smart Life", tap "Enable" to enable the Skill.
10. Enter the Smart Life App account and password, then tap "Link Now" to link your Smart Life account to enable the Skill.
11. After link Smart Life account successfully, you can control sub-devices connected with our gateway via voice commands.

Tap "Skills&Games"　　Tap "Enable" to enable the Skill　　Enter the Smart Life App account and password,

Note for applications

1. If gateway cannot connect with WiFi, check if your phone is connected to Wi-Fi and whether open bluetooth and location of your phone; If there is no problem in your mobile phone, please long press reset key for 5s, until indicator flash rapidly for several times.
2. When the gateway is be used, it must be connected to socket all the time.
3. In order to have stable connection, we recommend that install gateway in the central area of all sub-devices and stay 2-6 meters away from WiFi router; the distance between gateway and sub-devices are no more than 20 meters and there be no more than two walls between them.
4. Try to avoid mental blocks and load-bearing walls between gateway and router, gateway and sub-devices; If there are thicker solid walls or high-power electrical appliances (for instance,refrigerator, air conditioner, electric heater and so on) between gateway and sub-devices, the communication distance will decreases to only 3-5 meters.
5. The phone must connect with Wi-FI firstly, then connect sub-devices to gateway by Tuya App.
6. The maximum number of sub-devices connecting with the same gateway is 64.