

## **Bluetooth MESH (SIG) Gateway**

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## **1, Product Description**

Bluetooth MESH (SIG) gateway is composed of highly integrated wireless WIFI module, Low energy wireless bluetooth module and main board. Through the Tuya Smart APP, users can implement device addition, device reset, third-party control, and Bluetooth (single point & mesh) group control to meet smart home and other applications.

## **2, Application fields**

- ✧ Smart home/home appliances
- ✧ Commercial lighting
- ✧ Medical monitoring
- ✧ Industrial wireless control
- ✧ Remote data collection

## **3, Features**

- 1、 Small size, saving space
- 2、 Plug and play, easy to use
- 3、 Multi-network integration, free switching

Integrate WIFI and Bluetooth single-point & Mesh communication methods, which can be remotely controlled by WIFI and can be controlled by local Bluetooth. It can also be handled without network.

- 4、 WIFI signal and Bluetooth single point & Mesh signal are stable and reliable, wide coverage, strong wall penetration ability, strong anti-interference ability, low heat generation and low power consumption
- 5、 The device uses the industry's high-level encryption method to transmit information on the WIFI and Bluetooth terminals to ensure network communication security and prevent malicious intrusion.
- 6、 The same network supports multiple devices to work at the same time to improve network reliability.

## Bluetooth MESH (SIG) Gateway

### 4, Specifications

<b>Physical features</b>	
Size	65*65*14.5mm
Net weight	29g
Status LED indicator	2 LED (WIFI+bluetooth)
button	1 (reset)
power	Micro USB DC5V
working current	<1A
adaptor output	5V 1A
working temperature	-10-55°C
working humidity	10%-90%RH (non-condensing)
storage temperature	-20-60°C
storage humidity	5%-90%RH (non-condensing)
Hardware interface	1 Micro-USB
wireless technology	WIFI 802.11 b/g/n
	Bluetooth single point & Mesh
Antenna type	Built-in onboard antenna

<b>RF characteristics</b>		
	WIFI	Bluetooth single point&Mesh
wireless frequency	2.400 ~2.4835GHz	2.400-2.4835 GHz
network standard	WIFI 802.11 b/g/n	Bluetooth single point&Mesh
Transmission power	21dBm	7dBm
channel	CH0-CH11	CH0-CH39 channel 2402MHz; 2404MHz; 2406MHz; 2408MHz; 2410MHz; …2480MHz

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		one channel is added every 2MHz.
transmission speed	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 (BLE 4.2) 2Mbps (BLE5.0)
<b>Network performance</b>		
wireless encryption	AES 128bit encryption	
	WPA-PSK/WPA2-PSK, WPA/WPA2 security Mechanism	
network management	long distance App configuration	
	WIFI module firmware upgrade	
	bluetooth module firmware upgrade	
Maximum sub-device	Max Node =128	

### 5, Status indicator and reset

Blue: bluetooth status

- Flashing means to be connected and allowed to connect to the network
- keep “on” for a long time, which means device is activated
- keep “off” for a long time, which means device is not activated

red: WIFI status

- keep “on”, which means wifi has been connected
- flashing means that wifi is waiting for connection
- keep “off” for a long time, which means wifi information has been configured, but cannot be connected.

Reset method: Press and hold the button for 5 seconds and see the red indicator flashing several times, which means the reset is successful.

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### 6, Physical dimension

65\*65\*14.5mm



### 7, Packing

Bluetooth MESH (SIG) gateway x1

Power cable x1

User manualx1