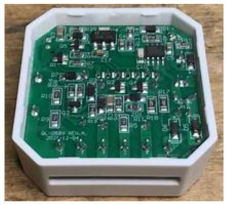
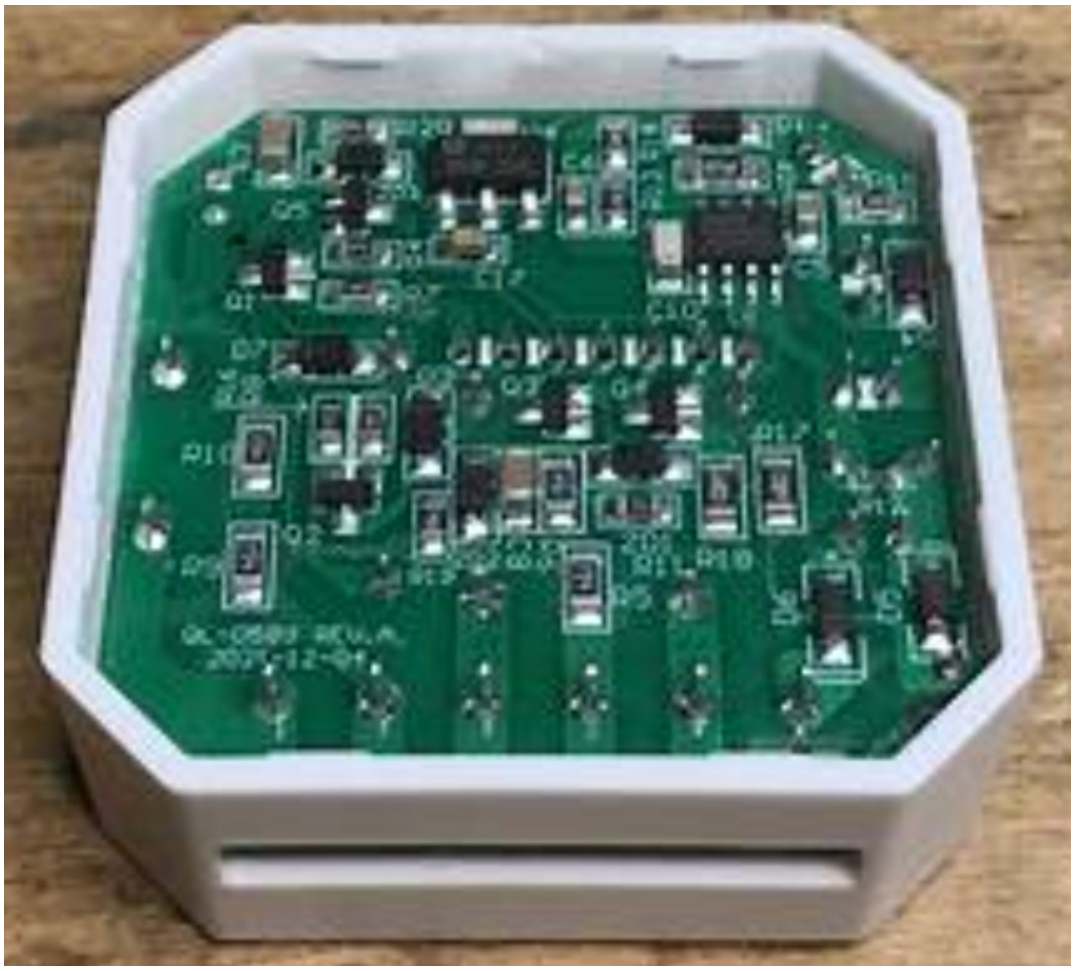


tuya CBU WiFi Module User Guide

Tuya CBU WiFi Module



Contents

1 Product Description
2 Product Specification
3 FCC Statement
4 Specific operational use conditions
5 Limited module procedures
6 RF exposure considerations
7 Antennas
8 Label and compliance information
9 Additional testing, Part 15 Subpart B disclaimer
10 FCC WARNING
11 FCC RF EXPOSURE STATEMENT:
12 Documents / Resources
12.1 References
13 Related Posts

Product Description

This is a wireless module for dimmers. The communication protocol is wifi + BT dual-mode, WiFi only supports 2.4GHz 11b/g/n mode, Bluetooth supports BLE. The main chip of the module is BK7231N, which is integrated with MCU and RF transceiver. The module uses 3.3v DC power supply, after power, you can directly connect to the AP or router. The module uses 26MHz crystal, has 2MB Flash, and can communicate with external MCU through UART to achieve data transmission and control functions.

Product Specification

standard	802.11b: DSSS (CCK, QPSK, BPSK) **802.11g/n (HT20, HT40)**: OFDM (64QAM, 16QAM, QPSK, BPSK) **BLE:** GFSK
Data Transfer Rate	**802.11b**: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps, **802.11g**: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps **802.11n(HT20):** (MCS0-MCS7) 7.2Mbps, 14.2Mbps, 21.7Mbps, 28.9Mbps, 43.3 Mbps, 57.8Mbps, 65Mbps, 72.2Mbps 802.11n(HT40): (MCS0-MCS7) 15Mbps, 3 0Mbps, 45Mbps, 60Mbps, 90Mbps, 120Mbps, 135Mbps, 150Mbps **BLE:**1M bps
Channel	**802.11b/g/n:** CH1-11 for US/CA Ch1-13 for EU/CN **BLE**: CH0-39
Antenna Type	PCB Antenna
Antenna Gain	2.21dBi(PCB antenna)
Frequency	26MHz

FCC Statement

CFR 47 FCC PART 15 SUBPART C has been investigated. It is applicable to the modular.

Specific operational use conditions

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

Limited module procedures

Not applicable

Trace antenna designs

Not applicable

RF exposure considerations

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm from your body.

Antennas

This module with an on-board PCB antenna, the antenna gain is 2.21dBi.

Label and compliance information

The final end product must be labeled in a visible area with the following" Contains FCC ID: 2A4G9-018"

Information on test modes and additional testing requirements

Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

Additional testing, Part 15 Subpart B disclaimer

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15 B

FCC WARNING

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

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.

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 EXPOSURE STATEMENT:

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

Documents / Resources

	tuya CBU WiFi Module [pdf] User Guide 018, 2A4G9-018, 2A4G9018, CBU WiFi Module, CBU, CBU Module, CBU WiFi, WiFi Module, WiFi, Module

References

- User Manual

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