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xiaomi MHCWB8S-B, MHCWB8S-IB Wi-Fi BLE Module User Manual

Contents

xiaomi MHCWB8S-B, MHCWB8S-IB Wi-Fi BLE Module

The product description
The user can achieve wireless connection to WIFI net and BLE, through this module.

Basic parameters

Feature Description	Feature Description
Model	MHCWB8S-B&MHCWB8S-IB
Product Name	2.4GHz WIFI+Bluetooth Dual-Mode Module
Major Chipset	BL616C
WLAN Standard	IEEE 802.11b/g/n/ax
BT Standard	V5.0 BLE
WLAN Frequency Range	2.4GHz~2.4835GHz
BT Frequency Range	2402MHz~2480MHz
Spread Spectrum	IEEE 802.11b: DSS (Direct Sequence Spread Spectrum) IEEE802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing) IEEE802.11ax OFDMA(orthogonal frequency-division multiple access)
Modulation Method	DBPSK/DQPSK/CCK(DSSS) BPSK/QPSK/16QAM/64QAM/256QAM(OFDM)
Data Transfer Rate	11b:1,2,5.5, 11Mbps 11g: 6,9,12,18,24,36,48,54Mbps 11n:HT20MCS0~HT20MCS7 11ax:HT20MCS0~HT20MCS9
Antenna Reference	MHCWB8S-B:WIFI/BLE Internal Printed ANT; MHCWB8S-IB:WIFI/BLE external ANT
Interface	CART
Supply Voltage	3.3V±0.3V
Dimension	MHCWB8S-B:12 mm *16.2 mm *2.5 mm MHCWB8S-IB: 12 mm *13.5 mm *2.5 mm
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C

RF Output Power

	Band	Power Limited
WLAN	**2400-2483.5MHz**	**≤20dBm**
BLE	**2402-2480MHz**	**≤20dBm**

The display method of Model approved code In the factory the model-approved code is listed on the shielding case.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 andthe receiver.
- Connect the equipment to 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 ID

Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of FCC RF Rules. This equipment should be installed and operated with a minimum distance of 20
in (50cm)between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter CAUTION: To comply with the limits of the Class B digital deviceundero Part 15 of the FCC Rules, this device is compliant with Class B limits. All peripherals must be shielded and grounded.

Operation with non-certified peripherals or non-shielded cables may result in interference to radio or reception MODIFICATION To assure continued compliance, Any changes or modifications not expressly approved by the grantee of this device could void the authority to operate the device.

Radiation Exposure Statement
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with ma minimum distance of 50 cm(8 in)between the radiator and your body NOTE To satisfy FCC exterior labeling requirements, the following text must be placed on the exterior of the end IC ID product Contains Transmitter module FCC ID: 2AFZZ-MHCWB8S-B&2AFZZ-MHCWB8S-IB

To satisfy IESD exterior labeling requirements, the following text must be placed on the exterior of the end product " Contains Transmitter module IC:25903 -MHCWB8SB&25903 -MHCWB8S IB: This device complies with Industry Canada's llicense-exemptRSSs. Operation is subject to the following two conditions: "Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

IC ID:Manufacturer:xxxxx
Address: xxxxx
A voltage stabilizing element or circuit is required on the power supplies to the module, and then the power supply is sent to the module This equipment may be operated in all European countries.

Connection to WIFI and BLE

To connect to a WIFI network and Bluetooth Low Energy (BLE), follow these steps:

1. Ensure the module is powered on.
2. Access the device's settings and search for available WIFI networks and BLE devices.
3. Select the desired WIFI network and BLE device to establish a connection.
4. Enter any required credentials or pairing codes if prompted.

5. Once connected, you can start using the WIFI and BLE functionalities of the module.

Display Method of Model Approved Code

The model approval code is listed on the shielding case of the module in the factory for identification purposes.

Frequently Asked Questions

Q: What is the required voltage stabilizing element for this module?
A: A voltage stabilizing element or circuit is required on the power supplies to the module to ensure stable power delivery.

Q: In which countries can this equipment be operated?
A: This equipment may be operated in all European countries.

Documents / Resources

[xiaomi MHCWB8S-B, MHCWB8S-IB Wi-Fi BLE Module](#) [pdf] User Manual
MHCWB8S-B, 2AFZZ-MHCWB8S-B, 2AFZZMHCWB8SB, MHCWB8S-B MHCWB8S-IB Wi-Fi BLE Module, MHCWB8S-B MHCWB8S-IB, Wi-Fi BLE Module, BLE Module, Module

References

- **User Manual**