

Midea MWB1830 WIFI+BT Module User Manual

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WIFI+BT Module MWB1830-WB01 PRODUCTS USER MANUAL

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Product Description

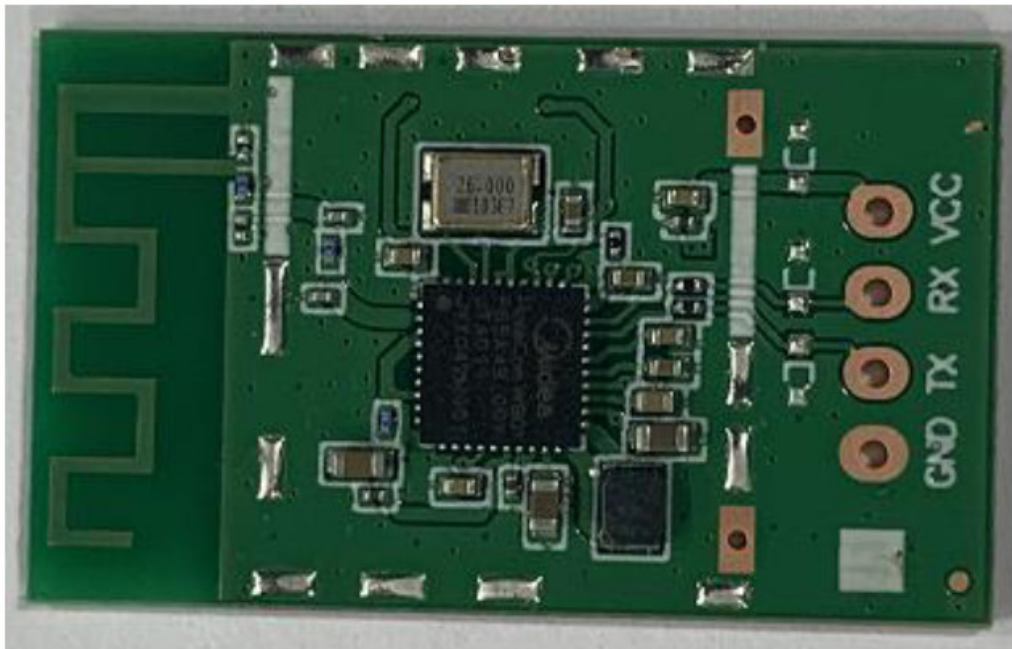
The MWB1830-WB01 is a high-gain and low power consumption wifi module. It fully complies with IEEE 802.11b/g/n feature-rich wireless connectivity at high standards, delivers reliable, cost-effective, throughput from an extended distance. When 5V, UART, and GND were connected, This module is working. The Bluetooth part supports the latest 5.1LE operation.

Product Features

- Complies with IEEE 802.11g; 802.11b; 802.11n; standard for 2.4GHz Wireless LAN.
- ONE Transmit and ONE Receive path(1T1R)
- Supports Ad-Hoc/Infrastructure modes
- Works with all existing network infrastructure.
- Capable of up to 128-Bit WEP Encryption.
- Freedom to roam while staying connected.
- UP to 75.5Mbps High-Speed Transfer
The rate in 802.11N mode of operation.
- Operating Systems Linux
- Low power consumption.
- Complies with UART base specification revision 1.1 for WLAN
- Easy to install and configure.
- Bluetooth v5.1 Low Energy(LE);

Product Specification

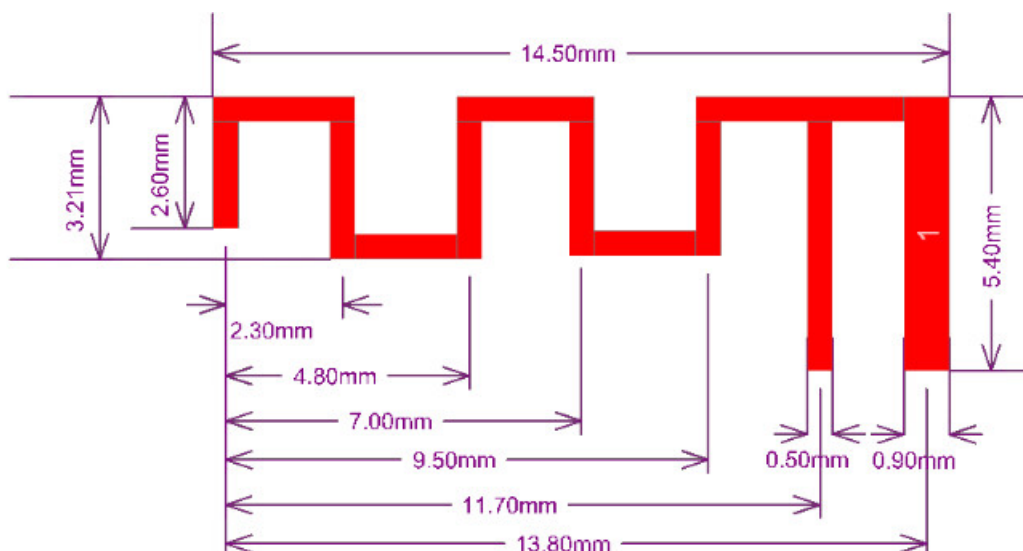
Model	MWB1830-WBO1
Product Name	WIFI+BT Module
Standard	802.11a/b/g/n
Interface	WiFi: DART BT: DART
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90 and maximum of 75.5Mbps
Modulation Method	QPSK,BPSK ,CCK(802.11b) QPSK,BPSK,16QAM ,64QAM with OFDM (802.11g) BPSK,QPSK,16QAM ,64QAM with OFDM (802.11n) GFSK(BT)
Frequency Band	2.4GHz: CH 1—CH11 for FCC
Transmit Power	< 20dBm
Operation Mode	Ad hoc, Infrastructure
Operation Range	Up to 150 meters in open space
OS Support	AliOS
Security	WEP, TKIP, AES, WPA, WPA2
Operating Voltage	5V±10%
Operating Temperature	-40 — 85°C ambient temperature
Storage Temperature	-40 — 125°C ambient temperature
Humidity	5 to 95 % maximum (non-condensing)



Pin Definitions

Pin Name	Functional Description
GND	GND
TX	UART-TX, receive end in UART download
RX	UART-RX, transmit end in UART download, floating or pull up
5V	5V power supply

PCB Antenna specifications



Antennas:

2.4G

PCB antenna & 2.42 dBi

The antenna is permanently attached, can't be replaced.

NOTICE:

- please keep this product and accessories attached to the places which children can't touch;
- do not splash water or other liquid onto this product, otherwise, it may cause damage;
- do not put this product near the heat source or direct sunlight, otherwise, it may cause deformation or malfunction;
- please keep this product away from flammable or naked flame;
- please do not repair this product by yourself. Only qualified personnel can be repaired.

FCC Statement

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.

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

Please notice that if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC ID: VG8MWBWB01" any similar wording that expresses the same meaning may be used.

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device, for example, USB dongle-like transmitters is forbidden.

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 and must be installed to provide a separation distance of at least 20cm from all persons.

Separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and difference antenna configurations. There is a requirement that the grantee provides guidance to the host manufacturer for compliance with Part 15B requirements.

The end-user manual shall include all required regulatory information/warning as shown in this manual, including: This product must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

The module complies with FCC Part 15.247 /RSS-247 and applies for Single module approval.

Canada Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). 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.

The device has been tested and in compliance with SAR limits, users can obtain Canadian information on RF exposure and compliance.

Please notice that if the ISED certification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains IC: 21015-MWBWB01" any similar wording that expresses the same meaning may be used.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter and must be installed to provide a separation distance of at least 20cm from all persons.

The modular can be installed or integrated into mobile or fixed devices only. This modular cannot be installed in any portable device, for example, USB dongle-like transmitters are forbidden.

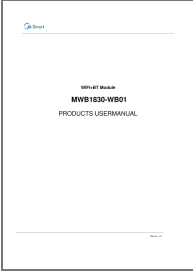
When the module is installed inside another device, the user manual of this device must contain the below

warning statements;
This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada’s license-exempt RSS(s). 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.

The devices must be installed and used in strict accordance with the manufacturer’s instructions as described in the user documentation that comes with the product.

Documents / Resources

	<p>Midea MWB1830 WIFI+BT Module [pdf] User Manual MWB1830, WIFI BT Module, MWB1830 WIFI BT Module</p>
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