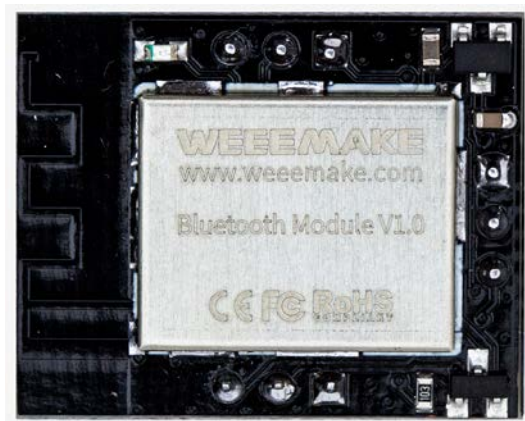


Bluetooth manual



1. Summary

The Bluetooth module is a commutative wireless communication module designed by our company for DIY products. It can be used on the main control board such as ELF and ELF MINI, which is easy to use and easy to use.

2. Characteristics

- *Follow the BT4.1 Bluetooth specification to support Bluetooth low power consumption.
- *UART Interface
- *Support air upgrade (OTA) firmware to solve customer's worries
- *The module comes with serial pin, ROHS process
- *Built-in 2.4G PCB antenna, users do not need antenna debugging
- *High performance wireless transceiver system, in the open area, the distance can reach 20~30 meters.
- *With Anti plug protection

3. Application

The module is mainly used for short distance data wireless transmission, and it can be easily connected to Bluetooth devices such as PC, smart phones and other wireless terminals, so that it can control small cars or DIY devices through PC or smart phone.

First, the Bluetooth module is installed on the corresponding area of the main control panel. When the Bluetooth module is energized, the blue LED of Bluetooth module indicator lamp will blink. When the device connection is successful, the blue LED of Bluetooth module lamp will always shine.

4. Physical and Electrical Properties

Operating Frequency Band	2.4GHz-2.48GHz unlicensed ISM band
Bluetooth Specification	BT4.1(Bluetooth Low Energy)
Operating Voltage	4.5V—5.5V
Main Digital Interface	UART
Storage Temperature	-40℃—+85℃
Operating Temperature	-20℃—+70℃
Dimension	25.7mm(L) x 20.8mm(W) x 3.5mm(H)

5. PIN Foot Definition

Pin.No	Name	Type	Description
Left			
1	RXD	I/O	Serial Input 5V
2	TXD	I/O	Serial Output 5V
3	Reset	I	Reset pin
Below			
1	5V	Power	5V Power
2	NC	NC	NC
3	GND	Power	GND
Right			
1	NC	NC	NC
2	GPIO	I/O	I/O
3	DTR	O	DTR

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

Note: 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Note 1: Compliance of this device in all final host configurations is the responsibility of the Grantee.

OEM integrators are responsible to satisfy RF exposure requirements. SAR evaluation is valid for portable, mobile and fixed applications.

Note 2: Any modifications made to the module will void the Grant of Certification, this module is limited to OEM installation only and must not be sold to end-users, end-user has no manual instructions to remove or install the device, only software or operating procedure shall be placed in the end-user operating manual of final products.

Note 3: The device must not transmit simultaneously with any other antenna or transmitter.

Note 4: To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that the after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements. Since this may depend on the details of how the module is integrated with the host, Weemake Co., Ltd shall provide guidance to the host manufacturer for compliance with the Part 15B requirements.

Note 5: FCC ID label on the final system must be labeled with “Contains FCC ID: 2AOG3WM0A” or “Contains transmitter module FCC ID: 2AOG3WM0A”.

The transmitter module must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the host product. Weemake Co., Ltd. is responsible for the compliance of the module in all final hosts.

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