WLT5283M BLE

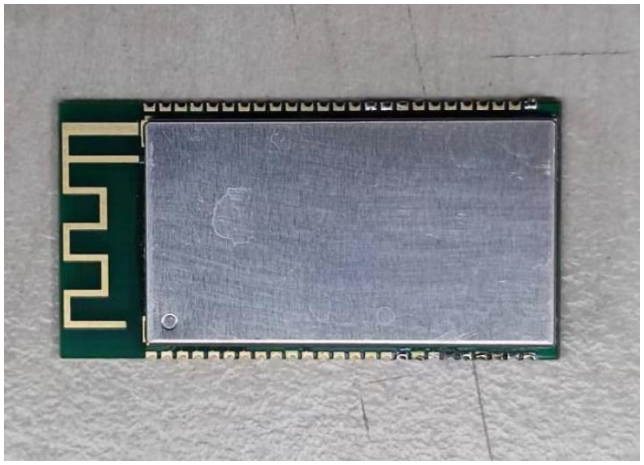
User manual

V1.1

The user manual of Wireless Bluetooth Modular

WLT5283M is a low-power Bluetooth transparent module introduced by Wi-linktech. Themodule is mainly used for the data communication of the Internet of Things, and the data acquisition and control are realized through the rich peripheral interfaces. In transparent transmission mode, users' products can quickly connect with modules and communicate with mobile devices to achieve intelligent control and management of products.

WLT5283M is based on the low-power Bluetooth 5.0 protocol, which can be used for transparent and encrypted transmission of point-to-point data. Users do not need to care about the transmission protocol, but only need to make simple settings to communicate.



Wi-linktech has been engaged in the Bluetooth field for many years, and its R&D strength is strong. It can easily realize the interconnection, data transmission and other applications of users' Bluetooth devices. On the basis of the WLT5283M standard module, our company can customize

and design the Bluetooth module according to the customer's requirements and provide the corresponding software and hardware support. For details, please contact us http://www.wi-linktech.com/ Or customer service.

Application

Personal equipment:

Wearable, mouse and keyboard, remote control toys;

Retail logistics:

Electronic shelf labels, cold chain transportation;

Smart home:

Lighting, sensors, smart locks, remote controls, lawn mowers, intelligent robots, intelligent

printers, lifting tables and chairs;

Industrial control:

Special printer and medical equipment

RF output power

Bluetooth	Band	Output Power(ERIP)
	2402-2480MHz	-0.42dBm

Installation Notes:

1, Power supply range is DC 2.0~3.6V, the power supply cannot exceed this range.

2, When connect this module to the host device, the host device must be power off.

3, Make sure the module pins correctly installed

4, Make sure that the module does not allow users to replace or demolition

Installation Notice to Host Product Manufacturer

The OEM integrator is responsible for ensuring that the end-user has no manual instruction to remove or install module.

The module is limited to installation in mobile application, a separate approval is required for all other operating configurations, including portable configurations with respect to §2.1093 and difference antenna configurations.

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.

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

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.

2.2 List of applicable FCC rules

FCC Part 15.247

2.3 Summarize the specific operational use conditions

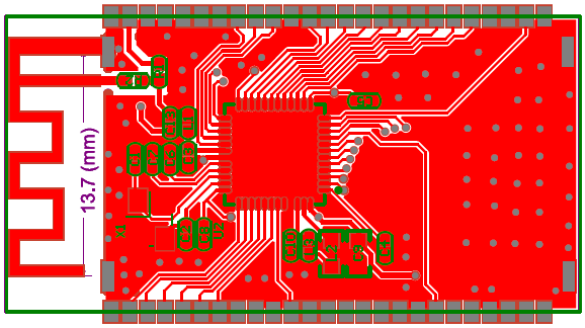
None

2.4 Limited module procedures

This applicant applied single modular certification.

2.5 Trace antenna designs

Antenna position size	Length (X)	18.0 ± 0.15 mm
	Width (Y)	5.6 ± 0.15 mm



If you desire to increase antenna gain and either change antenna type or use same antenna type certified, a Class II permissive change application is required to be filed by us, or you (host manufacturer) can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

2.6 RF exposure considerations

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 minimum distance of 5mm between

the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter

To be used in any other way, such as mobile to portable or with other transmitters simultaneously, requires additional evaluation, testing, or testing and Class 2 permissive change.

2. 7 Antennas

There is only one antenna, type: PCB antenna, gain is 3.0dBi

2.8 Label and compliance information

Labelling Instruction for Host Product Integrator

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: TN7-WLT5283M” any similar wording that expresses the same meaning may be used.

NOTE

To satisfy FCC exterior labeling requirements, the following text must be placed on the exterior of the end product Contains Transmitter module FCC ID: *******

2.9 Information on test modes and additional testing requirements

Test modes should take into consideration different operational conditions for a standalone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product.

Use the software RTLBTAPP to set the max power, OBW and other test parameter.

The host must Comply with Part 15 Subpart B compliant.

2.10 Additional testing, Part 15 Subpart B disclaimer

This module complies with FCC part 15. 247, if it is installed in a host device, the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuity), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

2.11 Note EMI Considerations

The host manufacture is recommended to use D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties

Use the software RTLBTAPP to set the max power, OBW and other test parameter.

For standalone mode, reference the guidance in D04 Module Integration Guide and for simultaneous mode see D02 Module Q&A Question 12, which permits the host manufacturer to confirm compliance.

2.12 How to make changes

This module is not permitted to change.