



GSD WT54M2001 WIFI+BT Module User Manual

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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.

Product Description

The WT54M2001 is a complete dual-band(2.4GHz and 5GHz)WIFI 2×2 MIMO module. This module provides a high level of integration with a dual-stream IEEE 802.11n MAC/ base band /radio and Bluetooth 5.0.The WLAN operation supports 20MHz,40MHz channels for data rates up to 300Mbps. It fully complies with IEEE 802.11 a/b/g/n feature rich wireless connectivity at high standards,delivers reliable,cost-effective, throughput from an extended distance.

Product Features

- Complies with IEEE 802.11b/g/n for 2.4GHz and IEEE 802.11a/n 5GHz Wireless LAN.
- Bluetooth v5.0
- Two transmit and Two receive path(2T2R)
- Works with all existing network infrastructure.
- Capable of up to 128-Bit WEP Encryption.
- Freedom to roam while staying connected.
- UP to 300 Mbps High-Speed Transfer Rate in 802.11n mode of operation.
- Operating Systems Linux, Win7, Win8, Win10, XP
- Low power consumption.
- Easy to install and configure.
- High speed USB 2.0 interface

Product Specification

Model	WIF+BT Module
Product Name	WT54M2001
Standard	802.11 a /b/g/n
Interface	USB
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90,120 and maximum of 300Mbps
Modulation Method	GFSK,n/4-DQPSK,8DPSK(bluetooth) DQPSK,DBPSK,CCK(802.11b) QPSK,BPSK,16QAM,64QAM with OFDM (802.11g) QPSK,BPSK,16QAM,64QAM with OFDM (802.11n) QPSK,BPSK,16QAM,64QAM with OFDM (802.11a)
Frequency Band	BLUETOOTH 2402-2480 MHz WIFI 2.4G: 2412-2462 MHz 5G: 5150-5350MHz,5470-5725MHz 5725-5850MHz

Operation Mode	Infrastructure
Security	WEP, TKIP, AES, WPA, WPA2
Operating Voltage	3.3V±10%
Current Consumption	<1000mA
Antenna Type	PIFA
Operating Temperature	0 — 70°C ambient temperature
Storage Temperature	-40 — 80°C ambient temperature
Humidity	5 to 95 % maximum (non-condensing)

FCC Statement

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 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:2AC23-WT541" any similar wording that expresses the same meaning may be used.

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

The module is limited to OEM installation ONLY.

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 Part 2.1093 and difference antenna configurations. There is requirement that the grantee provide guidance to the host manufacturer for compliance with Part 15B requirements.

The module complies with FCC Part 15.247 / Part 15.407 and apply for Single module approval. Trace antenna designs: Not applicable.

Antennas:

2.4G	5G
PIFA antenna & 1.72 dBi	PIFA antenna & 2.57 dBi

BT Antenna:

BRADE	TYPE	GAIN
ZTX	PIFA antenna	1.72 dBi

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

Canada Statement


This device complies with Industry Canada's licence-exempt RSSs. 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.

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:12290A-WT541**” any similar wording that expresses the same meaning may be used.

The device for operation in the band **5150-5250** MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band **5725-5850** MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate.

Documents / Resources



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WT541, 2AC23-WT541, 2AC23WT541, WT54M2001 WIFI BT Module, WIFI BT Module