

GSD WCT28M2701 WiFi Bluetooth Module User Manual

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GSD WCT28M2701 WiFi Bluetooth Module



Product Description

The WCT28M2701 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 802.11ac MAC/ base band /radio and Bluetooth 5.1.The WLAN operation supports 20MHz,40MHz and 80MHz channels for data rates up to 866.7Mbps. It fully complies with IEEE

802.11 a/b/g/n/ac 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/ac 5GHz Wireless LAN.
Bluetooth v5.1
- 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 866.7 Mbps High-Speed Transfer Rate in 802.11ac 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	WCT28M2701
Standard	802.11 a /b/g/n/ac
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 866.7Mbps
Modulation Method	GFSK, $\pi/4$ -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) QPSK, BPSK, 16QAM, 64QAM, 256QAM with OFDM (802.11ac)
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 \pm 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)

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 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-WCT28" 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:

Brand	Model	Type	Gain	Function
ZTX	WIFI PIFA Ant	PIFA	2dBi for 2.4GHz Band 3dBi for 5GHz Band	WIFI
ZTX	BT PIFA Ant	PIFA	2dBi	BT /BLE/BDR/EDR
HKC	WWXL6009190	PIFA	3.86dBi for 2.4GHz band 4.74dBi for 5GHz band	WIFI 2.4G / WIFI 5G
HKC	WWXL6009189	Cooper Tube	2.71dBi	BT BLE/BDR+EDR

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:

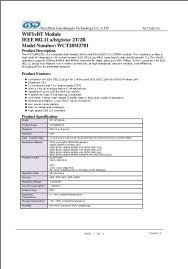
- 1. This device may not cause interference; and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

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-WCT28” 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;

Frequency bands 5470-5600 MHz and 5650-5725 MHz
Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada’s weather radars operating in this band.

Documents / Resources



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WCT28, 2AC23-WCT28, 2AC23WCT28, WCT28M2701 WiFi Bluetooth Module, WCT28M2701, WiFi Bluetooth Module, Bluetooth Module, Module