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GSD CDXT03MF6002 Wi-Fi plus BT Module

Specifications

Model	CDXT03MF6002
Product Name	WIFI+BT Module
Standard	802.11 a /b/g/n/ac/ax
Interface	USB
Data Transfer Rate	UP to 1201Mbps
Modulation Method	GFSK,π/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) QPSK,BPSK,16QAM,64QAM,256QAM,1024QAM with OFDM (802.11ax)
Frequency Band	BLUETOOTH 2402~2480 MHz 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	PCB
Operating Temperature	0 ~ 70°C ambient temperature
Storage Temperature	-40 ~ 80°C ambient temperature
Humidity	5 to 95 % maximum (non-condensing)

Product Usage Instructions

1. **Installation:** Plug the USB interface of the module into a compatible port on your device.
2. **Configuration:** Follow the manufacturer's instructions to configure the module for your specific network settings.
3. **Compatibility:** Ensure compatibility with your operating system (Linux, Windows) before use.
4. **Security:** Set up encryption (e.g., WEP Encryption) for secure data transfer.
5. **Operation:** Enjoy high-speed wireless internet connectivity and Bluetooth capabilities.

WIFI+BT Module

IEEE 802.11 a/b/g/n/ac/ax 2T/2R

Model Number: CDXT03MF6002

Product Description

The CDXT03MF6002 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 802.11ax MAC/baseband/radio and Bluetooth 5.4. The WLAN operation supports 20MHz, 40MHz,z and 80MHz channels for data rates up to 1201Mbps. It fully complies with IEEE 802.11 a/b/g/n/ac/ax feature-rich wireless connectivity at high standards,

delivering reliable, cost-effective throughput from an extended distance.

Product Features

- Complies with IEEE 802.11b/g/n/ax for 2.4GHz and IEEE 802.11a/n/ac/ax 5GHz Wireless LAN.
- Bluetooth v5.4
- 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 1201 Mbps High-Speed Transfer Rate in 802.11ax mode of operation.
- Operating Systems Linux, Windows
- Low power consumption.
- Easy to install and configure.
- High-speed USB interface
- ROHS compliant

NOTICE:

- Please keep this product and its accessories attached to places that children can't touch.
- Do not splash water or other liquids 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 flames.
- Please do not repair this product by yourself. Only qualified personnel can make repairs.

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 usedbyh 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 to 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.

This module has been assessed against the following FCC rule parts: CFR 47 FCC Part 15 C (15.247, DTS and DSS) and CFR 47 FCC Part 15 E (NII). It applies to the modular transmitter.

This radio transmitter 2AC23-CDXT03 has been approved by the Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

The concrete contents to check are the following three points.

1. Maximum antenna gains are shown in item 2.7 below.
2. It should be installed so that the end user cannot modify the antenna
3. The feed line should be designed for 50 ohms

Fine-tuning of return loss, etc. Can be performed using a matching network. The antenna shall not be accessible for modification or change by the end user.

The module complies with FCC Part 15.247 / Part 15.407 and applies for a Single module approval.

Trace antenna designs: Not applicable, the antenna connector for this module is integrated into the module. Use of external antennas or antennas integrated into the host circuit board is not an option.

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 following antennas have been certified for use with this module.
Only antennas of the same type with equal or lower gain may also be used with this module.
Other types of antennas and/or higher gain antennas may require tdditional authorization for operation. The installer should use a unique antenna connector and Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. The manufacturer of the module will inform the installer to meet with the FCC part 15.203 in the warning part.

Antenna Specification list below:

BT/BLE Antenna:

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PIFA Antenna	0.3

2.4 G antenna:

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PIFA antenna	2.88
2	2412-2462	PIFA antenna	-0.26

5 G wifi antenna

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	PIFA antenna	4.01
2	5150-5850	PIFA antenna	3.13

- Please note 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 "Contains FCC ID: 2AC23-CDXT03"; any similar wording that expresses the same meaning may be used.

- Testing of the host product with all the transmitters installed – referred to as the composite investigation test- is recommended to verify that the host product meets all the applicable FCC rules. The radio spectrum is to be investigated with all the transmitters in the final host product functioning to determine that no emissions exceed the highest limit permitted for any one individual transmitter as required by Section 2.947(f). The host manufacturer is responsible for ensuring that when their product operates as intended, it does not have any emissions present that are out of compliance that were not present when the transmitters were tested individually.

- If the modular transmitter has been fully tested by the module grantee on the required number of channels, modulation types, and modes, it should not be necessary for the host installer to re-test all the available transmitter modes or settings. It is recommended that the host product manufacturer, installing the modular transmitter, perform some investigative measurements to confirm that the resulting composite system does not exceed the spurious emissions limits or band edge limits (e.g., where a different antenna may be causing additional emissions).
  The testing should check for emissions that may occur due to the intermixing of emissions with the other transmitters, digital circuitry, or due to physical properties of the host product (enclosure). This investigation is especially important when integrating multiple modular transmitters where the certification is based on testing each of them in a stand-alone configuration.
- Any company of the host device which install this modular should perform the test of radiated & conducted emission and spurious emission etc. according to FCC Part 15C: 15.247 and 15.209 & 15.207, part 15 E 15.407,15B class B requirement, only if the test result comply with FCC part 15C: 15.247 and 15.209 & 15.207, part 15 E 15.407,15B class B requirement. Then the host can be sold legally.
- The host product manufacturer is responsible for compliance with 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 circuitry), 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.
- The host manufacturer is recommended to use the FCC KDB 996369 D04 Module Integration Guide, recommending as "best practice" RF design engineering,g testing g and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties.
- This module a is stand-alone module. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

Canada Statement

This device complies with Industry Canada's license-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 note 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-CDXT03."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.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102, and compliance with RSS-102 RF exposur., Users can obtain Canadian information on RF exposure and compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Antenna type and antenna gain: BT/BLE Antenna:

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PIFA Antenna	0.3

2.4 G antenna:

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PIFA antenna	2.88
2	2412-2462	PIFA antenna	-0.26

5 G wifi antenna

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	PIFA antenna	4.01
2	5150-5850	PIFA antenna	3.13

Notice to OEM integrator

- Must use the device only in host devices that meet the FCC/ISED RF exposure category of mobile, which means the device is installed and used at distances of at least 20cm from persons.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- The end user manual shall include FCC Part 15 /ISED RSS GEN compliance statements related to the transmitter as shown in this manual(FCC/Canada statement).
- The host manufacturer is responsible for compliance of the host system with the module installed, with all other applicable requirements for the system, such as Part 15 B, ICES 003.
- The host manufacturer is strongly recommended to confirm compliance with FCC/ISED requirements for the transmitter when the module is installed in the host.
- The use condition limitations extend to professional users; then, instructions must state that this information also extends to the host manufacturer's instruction manual.T host manufacturer is strongly recommended to confirm compliance with FCC/ISED requirements for the transmitter when the module is installed in the host.
- Must have on the host device a label showing Contains FCC ID: 2AC23-CDXT03 or

IC: 12290A-CDXT03

- Both FCC ID and IC ID are not to be placed on the host at the same time, and only hosts going into the US can use the FCC ID, and only hosts going into Canada can use the IC ID.

The installer should put it in the manual

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.

FAQS

- **How do I install the WIFI+BT Module?**

  To install the module, simply plug the USB interface into a compatible port on your device.
- **What operating systems are compatible with this module?**
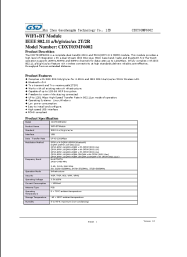
  The module is compatible with Linux and Windows operating systems.
- **How do I ensure secure data transfer?**

  You can set up encryption, such as WEP Encryption, to ensure secure data transfer.

Documents / Resources

 [GSD CDXT03MF6002 Wi-Fi plus BT Module](#) [[pdf](#)] Owner's Manual CDXT03, CDXT03MF6002 Wi-Fi plus BT Module, CDXT03MF6002, Wi-Fi plus BT Module, BT Module, Module

References

- [User Manual](#)

GSD

BT Module, CDXT03, CDXT03MF6002, CDXT03MF6002 Wi-Fi plus BT Module, GSD, Module, Wi-Fi plus BT Module

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