



## WiFi+BT Module IEEE 802.11a/b/g/n/ac 2T/2R

Model Number: WCT0LR2201J

### Product Description

The WCT0LR2201J is a high-gain and low power consumption wifi module . It fully complies with IEEE 802.11a/b/g/n/ac feature rich wireless connectivity at high standards, delivers reliable, cost-effective, throughput from an extended distance. When 3.3V, USB bus and GND were connected, This module is working. The Bluetooth part supports latest 4.1+HS operation.

### Product Features

- ◆ Complies with IEEE 802.11g; 802.11b; 802.11n ; 802.11a ; 802.11ac standard for 2.4GHz and 5GHz Wireless LAN.
- ◆ TWO Transmit and TWO Receive path(2T2R)
- ◆ Supports Infrastructure modes
- ◆ Works with all existing network frastructure.
- ◆ 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: Windows XP, Win7, Win8, Win10, Linux
- ◆ Low power consumption.
- ◆ Complies with PCI Express base specification revision 1.1 for WLAN
- ◆ Complies with USB2.0 FS-mode Specification for Bluetooth
- ◆ Easy to install and configure.
- ◆ Bluetooth v4.1 LE+EDR;

### Product Specification

Model	WCT0LR2201J
Product Name	WiFi+BT Module
Standard	802.11a/b/g/n/ac
Interface	WiFi: PCIE BT: 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	QPSK,BPSK ,CCK(802.11b) QPSK,BPSK,16QAM ,64QAM with OFDM (802.11g) BPSK,QPSK,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	2.4GHz: CH 1~CH13 for FCC 5GHz: 5150~5250MHz, 5725~5850MHz
Transmit Power	< 20dBm
Operation Mode	Infrastructure
Operation Range	Up to 300 meters in open space
OS Support	Windows XP, Win7, Win8, Win10, Linux
Security	WEP, TKIP, AES, WPA, WPA2
Operating Voltage	3.3V±10%
Operating Temperature	0 ~ 60°C ambient temperature
Storage Temperature	-40 ~ 80°C ambient temperature
Humidity	5 to 95 % maximum (non-condensing)



## FCC/Industry Canada Statement (to be placed on End Products) Federal Communications Commission (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: The user is cautioned that changes or modifications 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/PC technician for help.

## IC 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.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

Note: 5150MHz-5250MHz is only for indoor use for the end product.



## **FCC RF Radiation Exposure Statement:**

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 and any part of your body.

## **Notice to OEM integrator**

The end user manual shall include all required regulatory information/warning as show in this manual.

The OEM integrator is responsible for testing their end - product for any additional compliance requirements required with this module installed.

If the FCC ID 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. The end product shall have the words “Contains Transmitter Module FCC ID: 2AC23-WCT0LR2201J, IC: 12290A-WCT0LR2201J” .