PCIe2.1 x1 WiFi6 And BT5.3 Wireless Network Card

Product Descripton

LRCWF-AX210 is a high-speed PCI-E wireless network card that supports the sixth-generation WiFi protocol standard 802.11ax developed by Linkreal Co., Ltd. based on the AX210 module.

LRCWF-AX210 supports 2.4GHz, 5GHz and 6GHz tri-band up to 5374Mbps wireless rate, and supports Bluetooth 5.3 technology at the same time, amazing configuration standards and rich practical functions can meet the higher needs of users.

Operating System Support

- Windows 10 (64-bit)
- Windows11(64bit)
- Linux

Product Features

- PCIe x1 Bus, compatible with x4, x8, x16
- External 2*5dBi omnidirectional high-gain antenna, which can rotate freely;
- AX210 NGW main control solution;
- WiFi and Bluetooth 5.3 technology two-in-one;
- Support 2.4GHz, 5GHz and 6GHz tri-band;
- Conforms to the WiFi6 802.11ax standard and is backward compatible with 802.11 ac/b/g/n. Compared with 802.11 ac, the actual throughput in a dense user environment is increased by 4 times;
- The highest frequency band supports 160MHz;
- Support up to 5374Mbps wireless transmission rate;
- WiFi reception, to solve the problem that the desktop computer cannot access the Internet wirelessly.

Product Advantages

5374Mbps, the new sixth-generation WiFi standard
LRCWF-AX210 supports 2.4 & 5 & 6 GHz tri-band, the new sixth-generation WiFi standard 802.11ax, and the average throughput in dense environments is at least 4 times higher than that of 802.11ac. The rate of 5GHz and 6GHz can reach up to 2400Mbps, and the rate of 2.4GHz can reach 574Mbps. Users can play various large-scale online games without losing the connection, and enjoy the pleasure of extreme speed.

Bluetooth 5.3, faster and more stable transmission
LRCWF-AX210 adopts Bluetooth 5.3 technology, which has higher data transmission rate, stronger encryption control and better loop broadcast performance than Bluetooth 5.2. The data transmission rate of Bluetooth 5.3 2Mbps is twice that of Bluetooth 5.2; and the support of Bluetooth 5.2 does not have low-speed connection performance, which enables Bluetooth 5.3 to support and be widely used in medical equipment.

2*5dbi high gain antenna, WiFi signal reception
LRCWF-AX210 has an external 2 * 5Bi high-gain omnidirectional antenna to receive router or other WiFi signals to connect to the Internet. Support dual-band free switching. 2.4GHz, 5GHz and 6GHz can respectively meet the requirements of customers for signal penetration ability and anti-interference ability.

Support MU-MIMO
LRCWF-AX210 adopts a new generation of MU-MIMO wireless technology, allowing more downlink data to be transmitted at one time, enabling data to be transmitted to more devices.

Linkreal 联瑞

Technical Specificaaons

HARDWARE

Model	LRCWF-AX210	
Bus Type	PCI Express 2.0 x1	
I/O Controller	AX210NGW	
Wireless Standard	802.11 ax /ac /a /b /g /n	
Wireless Band	2.4GHz	2400-2500 MHz
	5GHz	5150-5850 MHz
	6GHz	5925-7125 MHz
Bluetooth Version	BT 5.3	
Interface Support	PCIe x1, compatible with X4, X8, x16	
Transmission Rate (max)	2.4GHz	574 Mbps
	5GHz / 6GHz	2400 Mbps
Antenna Gain	2.4GHz	3.8 dB
	5GHz	4.2 dB
Encryption	WPA2* Personal and Enterprise，WPA3*	
Scope Of Application	Desktop PC	
Transmit Power	WiFi	19.5 dBm
	BT	10 dBm
Operating System Support	Windows 10 (64-bit) ; Windows11(64bit)	
Indicator Light	WiFi Signal Light	

CONNECTOR

Bus Type	PCI Express 2.0 x1
Bluetooth	BT 5.3, support backward compatibility

ENVIRONMENTAL

Operating Temperature	0℃ - 70℃ (32℉ - 158℉)
Storage Temperature	-40℃ - 80℃ (-40℉ - 176℉)
Working Humidity	10% - 90% RH non-condensing
Storage Humidity	5% - 90% RH non-condensing

PHYSICAL CHARACTERISTICS

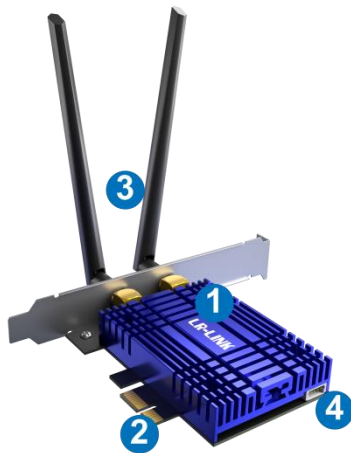|	
Heat Sink Size (unit: mm)	75*49*12.5
PCB Size (unit: mm)	86.6*62*1.6
Lntenna Length (unit: mm)	200
Bluetooth Cable (unit: mm)	300

PACKAGING INFORMATION

Package size (unit: mm)	226*149.5*33

* Product appearance and specificaaons are subject to change without nonce.

WHAT'S IN THE BOX

Included in Package	1 - 2-in-1 wireless network card
	1 - Low bracket
	1 - Full bracket(installed)
	2 - Antenna
	1 - Bluetooth cable
	1 - Installation Instructions

Product Structure

1. Heat Sink

2. PCIe x1 Bus Interface

3.2 * 5dbi High Gain Antenna

4. External Bluetooth Cable Interface

About us

Linkreal Co., Ltd was established in 2006. It is a national high-tech enterprise specializing in the research and development, production, sales and service of Ethernet cards, storage expansion cards, and Internet of Things gateways. It owns two major brands "Linkreal" and "LR-LINK", and its product range covers USB cards, I/O expansion cards, NVMe cards, serial port cards, IoT gateways, industrial automation network cards, image acquisition cards, server network cards, network security Network card, national production network card, etc., has always been committed to providing professional data transmission and network security hardware overall solutions for global customers.

For a long time, Lianrui Electronics has attached great importance to technological innovation and quality assurance, has set up a professional laboratory, and introduced several advanced equipment such as high and low temperature aging, ESD test, surge test, etc., to conduct strict tests on various indicators of products. All products have passed FCC, CE, ROHS, and IOS certifications, and are widely used in machine vision, data centers, cloud computing, cloud storage, network security, smart education, industrial Internet of Things and other fields.