

Wi-Fi 6E PCIe Network Card with Bluetooth 5.3, Magnetic Antenna Base with 3.6ft Cables, Tri-Band 802.11ax, AX5400 WiFi NIC, Windows/Linux - PCI Express Wi-Fi Card for PC

### Product ID: PAX2235-WIFI-6E-CARD

This Wi-Fi 6E Network Card enhances desktop capabilities, enabling high-speed low-latency wireless communication with reduced interference and less congestion in the 6GHz band, with speeds of up to 2400Mbps.

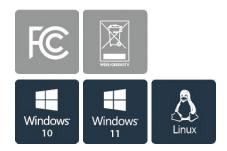
The PCIe 3.0 Wi-Fi card is backwards compatible with 802.11b/a/g/n/ac standards on both the 5GHz (2400Mbps) and 2.4GHz (574Mbps) bands. It includes a low-profile bracket for small form-factor systems. The Wireless Network Adapter is supported on both Windows\* and Linux operating systems.

The antenna base is magnetized and equipped with a 3.6ft attached cable, allowing for flexible antenna placement, optimizing signal reception and minimizing interference. In addition, the base of the antenna is covered in rubber to enhance grip when placed on level non-metallic surfaces.

This card features Bluetooth 5.3, enabling fast data transfers at 2Mbps, and offering an extended range, improved connection stability, and lower power consumption. To enable Bluetooth functionality, connect the 4-Pin IDC to 9-Pin USB Header (Bluetooth Cable - Included) to an available 9-Pin USB Header, located on the motherboard of the Host Computer.

WPA3 offers secure encryption for Wi-Fi password safety. OFDMA and MU-MIMO features improve network performance, reducing latency and enhancing data transfer efficiency. The all-metal aluminum heatsink dissipates excessive heat to maintain optimal performance.

# **Certifications, Reports and Compatibility**



## **Applications**

- Add, replace, or upgrade the wireless capabilities of a desktop system to the latest standard
- · Connect to the less congested 6GHz WiFi band to avoid interference from common wireless devices
- · Video conference, transfer files, or stream videos without lag through faster wireless performance

### **Features**

- WIFI 6E NETWORK CARD: Add Wi-Fi 6E capability to a desktop, enabling high-speed low-latency wireless communication with reduced interference and less congestion in the 6GHz band (up to 2400Mbps)
- COMPATIBILITY: PCIe 3.0 Wi-Fi Card is backwards compatible with 802.11a/b/g/n/ac standards on 5Ghz



(2402Mbps) and 2.4Ghz (574Mbps) bands; Low-profile bracket included for small form-factor systems; NOTE: Windows 10 does not support the 6Ghz band

- ANTENNA BASE: Included freestanding magnetic base with 3.6ft attached cable enables flexible placement of the antennas, allowing for optimal signal reception and reduced interference; Features a rubber base for grip when used on non-metallic surfaces
- BLUETOOTH 5.3: Enables fast data transfer (2Mbps) with extended range, improved connection stability, and lower power consumption; Included USB header cable must connect to an available 9-Pin USB 2.0 header on the motherboard for Bluetooth functionality
- SECURE & RELIABLE: OFDMA and MU-MIMO boost network performance by reducing latency and enhancing data transfer efficiency; WPA3/WPA2 enhance the security of personal password protection; Metal heatsink aids heat dissipation for optimal performance

	_				
н	а	ro	IΜ	ıa	re

Warranty 2 Years

Interface Wireless Ethernet

Bus Type PCI Express

Card Type Standard Profile (LP bracket incl.)

Antenna Configuration External Magnetic Base w/2x 5dBi Wi-Fi 6E Tri-Band Antennas

Industry Standards IEEE 802.11ax

IEEE 802.11ac

IEEE 802.11n

IEEE 802.11g

IEEE 802.11a

IEEE 802.11b

PCI Express 3.0

Bluetooth 5.3 Class 2

**BDR Basic Data Rate** 

**EDR Enhanced Data Rate** 

BLE Bluetooth Low Energy

**USB 2.0** 

Chipset ID Intel - AX210

Performance





Maximum Data Transfer

Rate

2400Mbps (6Ghz)

2400Mbps (5Ghz)

574Mbps (2.4Ghz)

Bluetooth

Wireless

2Mbps

ESD Protection +/-8kV (Contact)

+/-15kV (Air)

Full Duplex Support Yes

Promiscuous Mode Yes

Frequency 2.4~6Ghz

Modulation 1024-QAM

Security Features WPA3 personal and enterprise including WPA2 transition mode

**AES** 

MTBF 50.000 Hours

Supported Protocols Intel vPro

Intel AMT

Connector(s)

Internal Ports 1 - 4 pin IDC (USB Motherboard Header) Female

External Ports 2 - RP-SMA (Coax, Reverse Polarity SubMiniature A)

Host Connectors 1 - PCI Express x1

Software

OS Compatibility Windows 10, 11

Linux 5.11 and up - LTS Versions Only

Special Notes / Requirements

Note Windows 10 does not support the 6Ghz wireless band

Indicators



	LED Indicators	1 - Solid Green: PCIe Wi-Fi Card is installed and receiving power		
Power	Power Source	Bus Powered		
Environmental	Operating Temperature	0C to 40C (32F to 104F)		
	Storage Temperature	-10C to 70C (14F to 158F)		
	Humidity	10% ~ 90% RH (non-condensing)		
Physical Characteristics				
	Color	Black		
	Material	Aluminum		
	Cable Length	3.6 ft [1.1 m]		
	Product Length	4.7 in [12.0 cm]		
	Product Width	2.4 in [6.2 cm]		
	Product Height	0.7 in [1.8 cm]		
	Weight of Product	7.1 oz [200.0 g]		
Packaging Information				
	Package Length	5.9 in [15.0 cm]		
	Package Width	4.2 in [10.7 cm]		
	Package Height	5.4 in [13.6 cm]		
	Shipping (Package) Weight	12.9 oz [365.0 g]		
What's in the Box	to the dead to Dead	4. POI- Wi Fi OI		
	Included in Package	1 - PCle Wi-Fi Card		
		1 - Magnetic Antenna Stand		
		1 - Bluetooth Cable		
		1 - Low-Profile Bracket with 2 x Screws		



### 1 - Quick-Start Guide

\*Product appearance and specifications are subject to change without notice.