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

RoHS Compliant



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

Hardware

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	Wireless
		2400Mbps (6Ghz)
		2400Mbps (5Ghz)
		574Mbps (2.4Ghz)
		Bluetooth
		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 6.2 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	5.3 in [13.5 cm]
	Package Height	4.5 in [11.5 cm]
	Shipping (Package) Weight	12.6 oz [356.0 g]

What's in the Box

Included in Package	1 - PCIe 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.