Wi-Fi 6E USB Adapter/Dongle, For Desktop/Laptop PC, Wireless NIC w/Foldable Antenna, WiFi Adapter Supports 802.11 b/g/n/ac/ax, 2.4/5/6 GHz Network Compatible

Product ID: AX54005A-USB-WIFI-6E



This USB Wi-Fi 6E Network Adapter connects to desktop or laptop computer enhancing its capabilities and enables high-speed and low-latency wireless communication in the 6GHz band with combined tri-band speeds of up to 5400 Mbps.

The USB Wi-Fi dongle with support for Wi-Fi 6/6E operating in this less congested 6Ghz frequency for reduced interference and enhanced speeds of up to 2402Mbps, ideal for latency-sensitive applications. The backward compatibility with 802.11 b, g, n, and ac wireless standards in both the 5GHz (2400Mbps) and 2.4GHz (574Mbps) bands ensures seamless integration with existing networks, allowing for smooth transitions and maximum flexibility.

The USB base is magnetized and is equipped with a 3.8ft (1.1m) built-in cable, allowing for flexible placement, which helps with signal reception and minimizes interference. In addition, the USB cradle is rubberized for improved grip when placed on flat, non-metallic surfaces.

The wireless NIC features a foldable antenna that helps improve signal quality and range as it enables to focus wireless signals directly to the device. Additionally, it adds convenience to mobile setups by maintaining a compact design when not in use.

WPA3 provides strong encryption for Wi-Fi password security. OFDMA and MU-MIMO features enhance network performance by reducing latency and improving data transmission efficiency.

OFDMA optimizes data transmission by dividing channels into smaller sub-channels, reducing latency and increasing efficiency, especially in crowded environments. Meanwhile, MU-MIMO allows simultaneous data transmission to multiple devices, maximizing throughput and minimizing wait times.

Certifications, Reports and Compatibility



Applications

Features

• WIFI 6E USB ADAPTER: Add Wi-Fi 6/6E capability to a desktop or laptop PC, enabling high-speed & low-latency wireless communications using the 6GHz band (802.11ax); Triple band compatible w/2.4, 5, & 6GHz frequencies at 574, 2402, 2402Mbps respectively

• COMPATIBILITY: Requires Windows 11 & a Wi-Fi 6E Router for 6GHz (802.11ax) functionality; Type-A USB 5Gbps host connection; WiFi 6E tri-band wireless dongle is compatible w/802.11 b/g/n/ac/ax on 2.4/5GHz bands; NOTE: Windows 10 does not support 6GHz band

• USB CRADLE: Included freestanding USB magnetic base with a 3.8ft (1.1m) cable allows flexible placement of the WiFi6 network adapter for optimal signal reception and reduced interference; Features a rubber base for grip when used on non-metallic surfaces

• COMPACT DESIGN: Small 3.7x1.5x0.6in (94x37x16mm) ax WiFi computer adapter features a foldable antenna that adds convenience to mobile setups; The repositionable antenna helps with signal quality and range

• PERFORMANCE & SECURITY: OFDMA & MU-MIMO optimize network performance, reduce latency, & increase data transfer efficiency; Vents along the device aid in heat dissipation; Supports WPA3 for enhanced personal password protection, backward compatible w/WPA2

Hardware

Warranty	2 Years
Interface	Wireless Ethernet
Bus Type	USB-A
Industry Standards	IEEE 802.11ax
	IEEE 802.11ac
	IEEE 802.11n
	IEEE 802.11g
	IEEE 802.11b
	USB 5Gbps (USB 3.2 Gen 1x1)

	Chipset ID	Realtek - RTL8832CU
Performance		
	Maximum Data Transfer Rate	11ax (6G): Up to 2402Mbps(Dynamic) 11ax (5G): Up to 2402Mbps(Dynamic) 11ax (2.4G): Up to 574Mbps(Dynamic) 11ac: Up to 867Mbps(Dynamic) 11n: Up to 300Mbps (Dynamic) 11g: Up to 54Mbps (Dynamic) 11b: Up to 11Mbps (Dynamic)
	Full Duplex Support	Yes
	Promiscuous Mode	Yes
	Frequency	2.4~6Ghz
	Modulation	DBPSK, DQPSK, CCK, OFDM, 256QAM, and 1024QAM
	Security Features	WPA3 personal and enterprise including WPA2 transition mode AES WPA and WPA2-PSK Data Encryption WEP Data Encryption WPS Data Encryption
Connector(s)		
	Host Connectors	1 - 9 pin USB 3.0 A Male 1 - 9 pin USB 3.0 A Female
Software		
	OS Compatibility	Windows 10, 11
Special Notes / Requirements		
	Note	Note: Windows 10 does not support the 6GHz band ,

		Full 6Ghz performance requires Windows 11 and a Wi-Fi 6E compatible Router
Indicators		
	LED Indicators	1 - Solid Green: Power , Flashing Green: Activity
Power		
	Power Source	Bus Powered
Environmental		
	Operating Temperature	0C to 40C (32F to 104F)
	Storage Temperature	-40C to 70C (-40F to 158F)
	Humidity	5% ~ 95% RH (non-condensing)
Physical Characteristics		
	Color	Black
	Material	Plastic
	Cable Length	45.5 in [115.5 cm]
	Product Length	6.5 in [16.5 cm]
	Product Width	1.5 in [3.7 cm]
	Product Height	0.6 in [1.6 cm]
	Weight of Product	1.3 oz [36.0 g]
Packaging Information		
	Package Length	6.9 in [17.5 cm]
	Package Width	5.6 in [14.3 cm]
	Package Height	1.8 in [4.5 cm]
	Shipping (Package) Weight	10.7 oz [302.0 g]
What's in the Box		
	Included in Package	1 - USB Wi-Fi Adapter
		1 - Magnetic Stand with Attached USB Extension Cable

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