

WAVLINK WN675X3C

WAVLINK WiFi 6E AX5400 PCIe WiFi Card User Manual

Model: WN675X3C

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your WAVLINK WiFi 6E AX5400 PCIe WiFi Card. This tri-band AX210 WiFi card is designed to provide high-speed wireless connectivity and Bluetooth 5.3 capabilities for your desktop PC, ensuring a stable and efficient network experience.

2. PRODUCT OVERVIEW

2.1 Package Contents

Please verify that all items are present in your package:

- 1x WiFi 6E AX5400 PCIe WiFi Card
- 1x Bluetooth Cable
- 2x External Antenna
- 1x Low Profile Bracket
- 3x Screws



Figure 2.1: Contents of the WAVLINK WiFi 6E AX5400 PCIe WiFi Card package, including the card, antennas, Bluetooth cable, low-profile bracket, and screws.

2.2 Product Features

- **AX5400 WiFi 6E Technology:** Supports 802.11ax with OFDMA, MU-MIMO, 1024QAM, and Target Wake Time (TWT) for high-speed data rates and ultra-low latency.
- **Tri-Band Connectivity:** Offers speeds up to 574Mbps (2.4GHz), 2400Mbps (5GHz), and 2400Mbps (6GHz) for versatile usage.
- **Bluetooth 5.3:** Provides 2x faster transmission speeds and 4x greater range for connecting Bluetooth-enabled devices.
- **WPA3 Security:** Enhanced protection against unauthorized access and malware.
- **High-Gain Dual Antennas:** Two 5dBi external antennas for strong signal reception and extended network coverage.
- **Intel AX210 Chipset:** Reliable and high-performance core for wireless capabilities.
- **PCIe Compatibility:** Works with PCIe X1/X4/X8/X16 slots (not compatible with PCI slots).
- **Operating System Compatibility:** Supports Windows 10/11 and Linux for desktop PCs.

3. SETUP AND INSTALLATION

Follow these steps carefully to install your WAVLINK WiFi 6E AX5400 PCIe WiFi Card into your desktop PC.

1. **Power Off PC:** Ensure your computer is completely powered off and unplugged from the power outlet.
2. **Open PC Case:** Open the side panel of your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCIe X1, X4, X8, or X16 slot on your motherboard. **Note:** This card is not compatible with standard PCI slots.

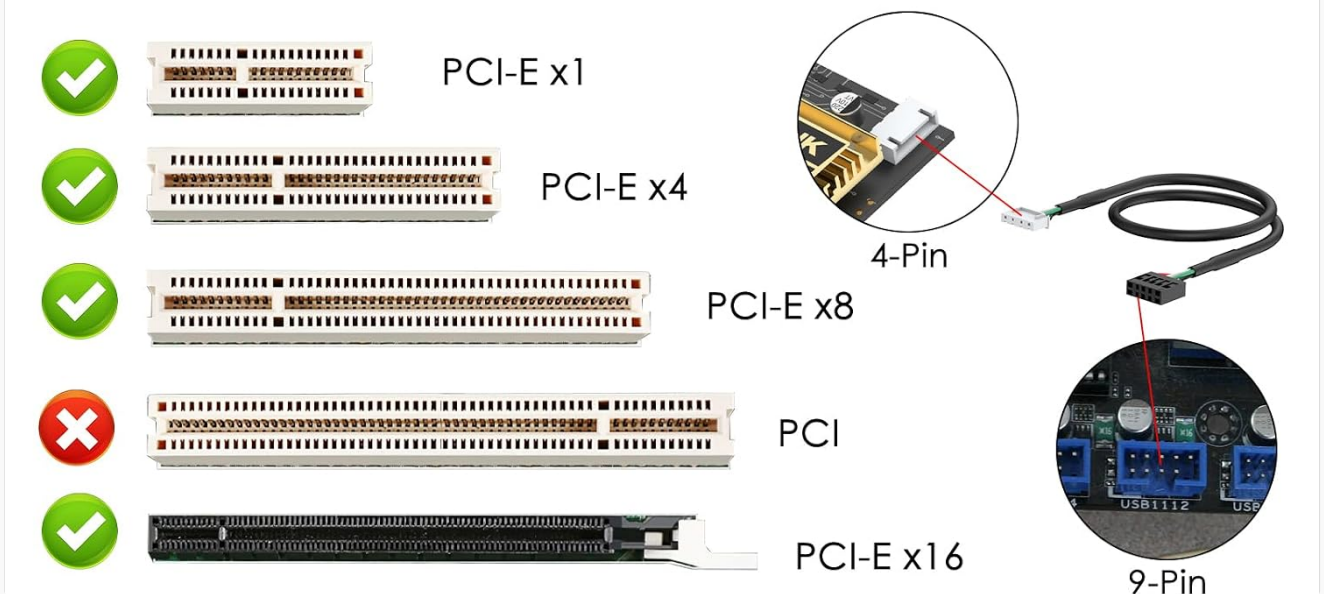
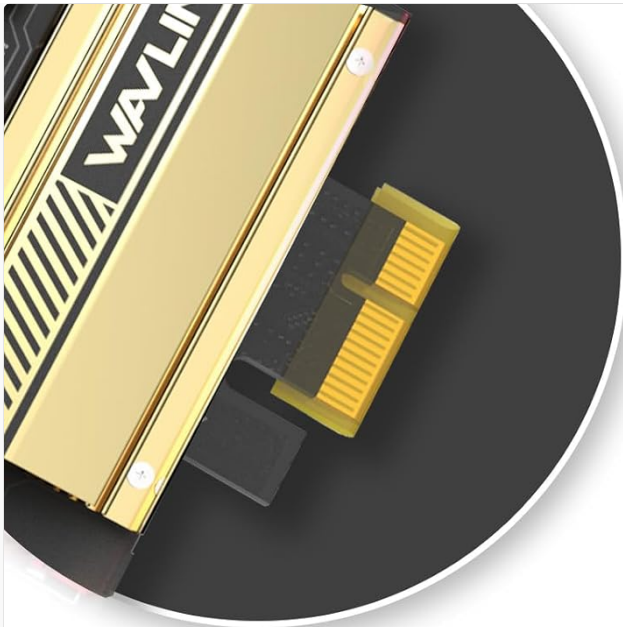


Figure 3.1: PCIe slot compatibility and Bluetooth cable connection diagram.

4. **Remove Plastic Film:** Before inserting the card, ensure you remove any protective plastic film from the gold-plated fingers on the PCIe connector.



Gold-plated Fingers

Reliable connection with minimal signal loss



Please Notice Before Use

Remove the plastic film on gold-plated fingers before connecting to the PCI-E slot

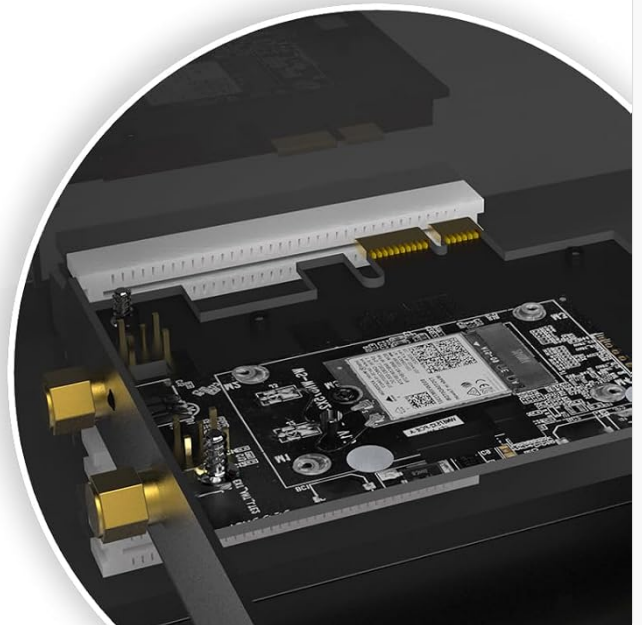


Figure 3.2: Important note regarding the protective plastic film on the gold-plated fingers.

5. **Insert WiFi Card:** Gently insert the WiFi card into the chosen PCIe slot until it is firmly seated. Secure the card with a screw if your case requires it.
6. **Connect Bluetooth Cable:** Connect the small 4-pin connector of the included Bluetooth cable to the corresponding port on the WiFi card. Connect the larger 9-pin connector to an available USB header on your motherboard. This connection is essential for Bluetooth functionality.
7. **Attach Antennas:** Screw the two external antennas onto the connectors at the back of the WiFi card. Adjust their angle for optimal signal reception.



Figure 3.3: The WiFi card with antennas installed.

8. **Close PC Case and Power On:** Close your PC case, plug in the power cable, and power on your computer.

9. **Driver Installation:**

For Windows 10/11 and Linux, the operating system may automatically detect and install the necessary drivers. If not, or for optimal performance, download the latest drivers from the official WAVLINK website. You may need to use a temporary wired internet connection or another device to download the drivers onto a USB drive.

Driver Download Link: Refer to the Quick Start Guide included in your package or visit the WAVLINK support website.

3.1 Installation Video Guide

Your browser does not support the video tag.

Video 3.1: An official video demonstrating the installation process of the WiFi 6 PCIe card for desktop computers.

4. OPERATING INSTRUCTIONS

Once the card is installed and drivers are set up, your computer will recognize the new wireless and Bluetooth capabilities.

4.1 Connecting to Wi-Fi

1. Navigate to your operating system's network settings.
2. Select the desired Wi-Fi network from the list of available networks.
3. Enter the network password if prompted and click "Connect".
4. The card will automatically connect to the optimal band (2.4GHz, 5GHz, or 6GHz) based on your router's capabilities and signal strength.

Wi-Fi 6E Beyond the Boundaries of Wi-Fi6

Keeps your network safe and allows you to surf online with peace of mind.

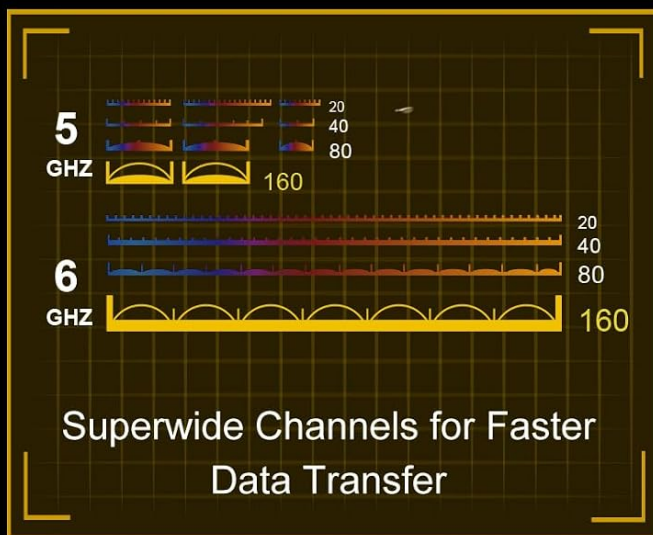
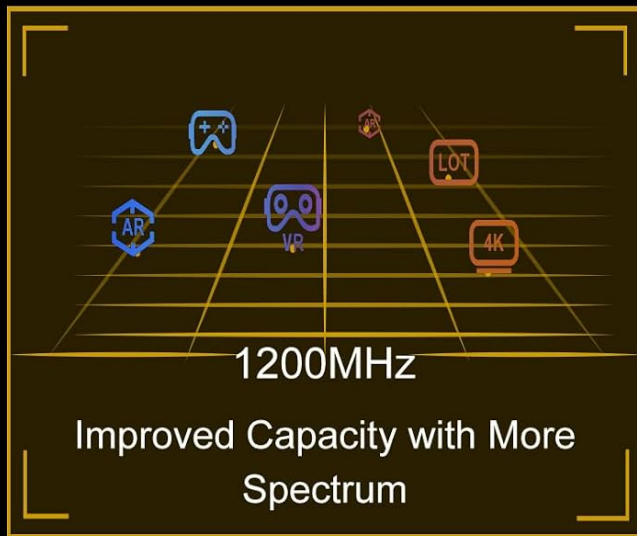


Figure 4.1: WiFi 6E extends wireless connectivity into the 6GHz band, offering improved capacity and reduced congestion for faster, more stable connections.

4.2 Using Bluetooth 5.3

1. Ensure the Bluetooth cable is correctly connected to both the card and your motherboard's USB header.
2. Go to your operating system's Bluetooth settings.
3. Turn on Bluetooth and put your desired Bluetooth device (e.g., headphones, mouse, keyboard) into pairing mode.
4. Select the device from the list and follow any on-screen prompts to complete the pairing process.

2x
Speed

4x
Range

8x
Efficiency

Updated Bluetooth 5.3 Technology

BT Earphone BT Keyboard BT Mouse BT Speaker Mobile Phone BT Gamepad

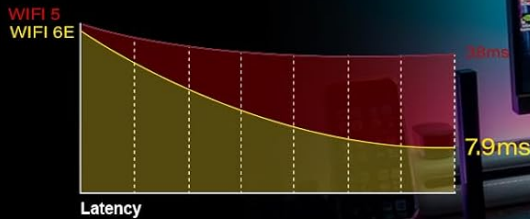
Figure 4.2: Bluetooth 5.3 technology enables faster and more efficient connections with a wide range of devices.

4.3 Performance Optimization

- **Antenna Placement:** Adjust the external antennas to an upright position or angle them for the best signal strength. Avoid placing your PC in enclosed spaces that might block Wi-Fi signals.
- **Router Proximity:** For optimal performance, especially on the 5GHz and 6GHz bands, ensure your PC is within reasonable range of your Wi-Fi 6E compatible router.
- **Driver Updates:** Regularly check the WAVLINK website for the latest driver updates to ensure maximum performance and compatibility.

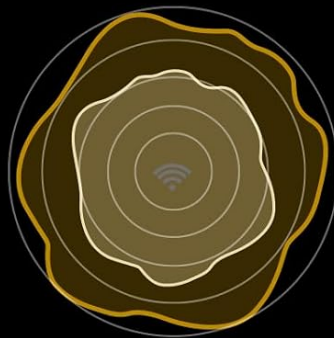
Minimized Lag for Your PC

OFDMA & MU-MIMO minimize lag so you can enjoy ultra-faster streaming and gaming like never before.



Better Performance with High-gain Antennas

Two powerful signal-boosting high-gain antennas greatly extend your existing Wi-Fi reception capabilities



WAVLINK AX5400's Coverage

Other Network Card Coverage

Figure 4.3: The card's advanced features like OFDMA and MU-MIMO, combined with high-gain antennas, significantly reduce lag and extend Wi-Fi coverage.

5. MAINTENANCE

The WAVLINK WiFi 6E AX5400 PCIe WiFi Card is designed for minimal maintenance. Keep the following in mind:

- **Cleanliness:** Ensure the PCIe slot and the card's heatsink remain free of dust to prevent overheating and maintain optimal performance. Use compressed air to gently clean if necessary.
- **Antenna Care:** Handle the antennas with care to avoid damage. Ensure they are securely screwed in.
- **Software Updates:** Regularly update your operating system and the card's drivers to benefit from performance improvements and security patches.

6. TROUBLESHOOTING

If you encounter issues with your WiFi card, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Wi-Fi connection / Card not detected	◦ Card not properly seated in PCIe slot. ◦ Drivers not installed or corrupted. ◦ Incorrect PCIe slot used (e.g., PCI slot). ◦ Protective film still on gold-plated fingers.	◦ Reseat the card firmly in the PCIe slot. ◦ Download and install the latest drivers from WAVLINK's website. ◦ Ensure the card is in a PCIe X1/X4/X8/X16 slot. ◦ Check and remove any plastic film from the gold-plated fingers.
Bluetooth not working	◦ Bluetooth cable not connected. ◦ Incorrect USB header used on motherboard. ◦ Bluetooth drivers not installed.	◦ Verify the Bluetooth cable is securely connected to both the card and the motherboard's USB header. ◦ Ensure the motherboard USB header is a standard 9-pin USB 2.0 header. ◦ Install or update Bluetooth drivers.
Slow Wi-Fi speeds / Frequent disconnections	◦ Poor antenna positioning. ◦ Interference from other devices. ◦ Outdated drivers. ◦ Router issues or distance.	◦ Adjust antenna angles for better signal. ◦ Move PC or router away from sources of interference (e.g., microwaves, cordless phones). ◦ Update drivers. ◦ Restart your router. Consider moving closer to the router or upgrading your router if it's not Wi-Fi 6E compatible.

7. SPECIFICATIONS

Feature	Detail
Model Number	WN675X3C
Wireless Standard	IEEE 802.11ax (Wi-Fi 6E)
Chipset	Intel AX210
Data Transfer Rate	Up to 5400 Mbps (2.4GHz: 574Mbps, 5GHz: 2400Mbps, 6GHz: 2400Mbps)
Bluetooth Version	Bluetooth 5.3
Antennas	2x 5dBi External Antennas
Hardware Interface	PCI Express x1/x4/x8/x16
Operating System Compatibility	Windows 10 (64-bit), Windows 11 (64-bit), Linux
Product Dimensions	8.86 x 5.51 x 0.9 inches
Item Weight	4 ounces

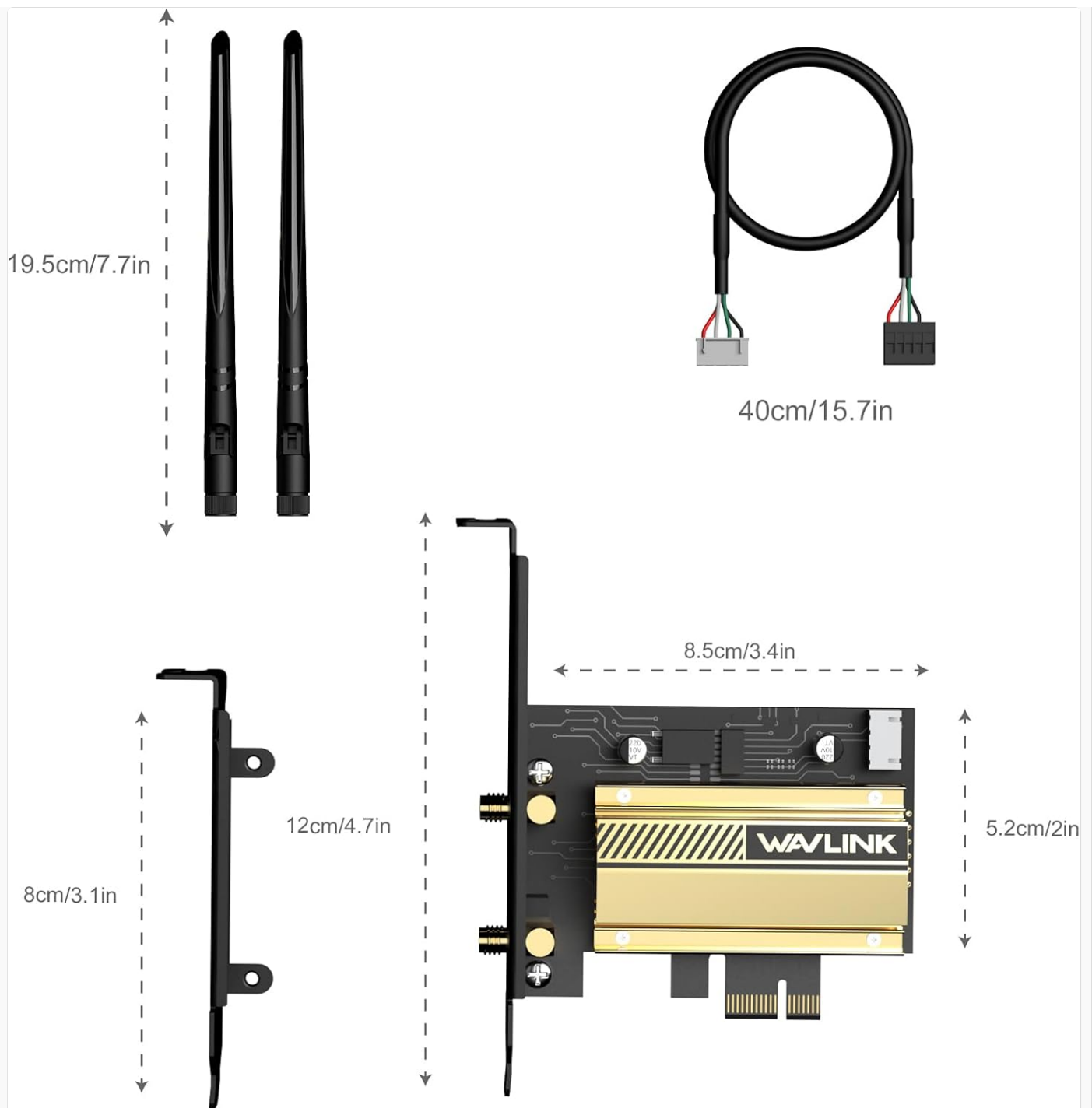


Figure 7.1: Product dimensions and component measurements.

8. WARRANTY AND SUPPORT

WAVLINK provides a **12-month worry-free warranty** for this product. We also offer **life-long technical support** to ensure your satisfaction.

8.1 Contact Information

If you encounter any problems or have questions regarding your WAVLINK WiFi 6E AX5400 PCIe WiFi Card, please do not hesitate to contact our support team:

- **Phone:** +1 8889730883 (UTC -5) Mon - Fri 9AM - 6PM
- **Email:** Contact@wavlink.com
- **Website:** Visit the official WAVLINK website for FAQs, driver downloads, and additional support resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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