

## WAVLINK AXE5400

# WAVLINK AXE5400 PCIe WiFi 6E Tri-Band Wireless Network Card with Bluetooth 5.3 User Manual

Model: AXE5400 (WN675X3-C)

## 1. INTRODUCTION

The WAVLINK AXE5400 PCIe WiFi 6E Tri-Band Wireless Network Card is designed to enhance your desktop computer's wireless connectivity and performance. Powered by the Intel AX210 chip, this adapter supports the latest Wi-Fi 6E standard, offering tri-band speeds across 2.4GHz, 5GHz, and the new 6GHz frequency bands. It also integrates Bluetooth 5.3 for seamless connection with compatible peripherals.

Key features include:

- **Tri-Band Speeds:** Up to 574Mbps (2.4GHz), 2400Mbps (5GHz), and 2400Mbps (6GHz) for a combined AX5400Mbps.
- **Intel AX210 Chip:** Ensures reliable and high-performance wireless connectivity.
- **Bluetooth 5.3:** Provides faster speeds and extended range for Bluetooth devices.
- **Advanced Technologies:** Supports OFDMA, MU-MIMO, and 1024-QAM for improved efficiency and reduced latency in crowded networks.
- **Enhanced Security:** Features WPA3 encryption for robust network protection.
- **High-Gain Antennas:** Dual 5dBi external antennas boost signal strength and coverage.
- **Broad Compatibility:** Works with Windows 10/11 (64-bit) and Linux operating systems, fitting PCIe X1/X4/X8/X16 slots.

## 2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1x WiFi 6E Tri-Band AX5400 PCIe Adapter with Bluetooth 5.3
- 1x Bluetooth Cable
- 2x High-Gain Antennas
- 1x Low Profile Bracket
- 3x Screws
- 1x Drivers Download Card

- 1x User Manual



Image: Contents of the WAVLINK AXE5400 package, including the PCIe card, antennas, cables, and documentation.

### 3. SPECIFICATIONS

Brand	WAVLINK
Model	AXE5400 (WN675X3-C)
Hardware Interface	PCIE x 1 (Compatible with PCIe X1/X4/X8/X16 slots, not PCI)
Data Link Protocol	Bluetooth, Gigabit Ethernet (Wireless)
Data Transfer Rate	5400 Megabits Per Second (Combined)
Wi-Fi Bands	2.4GHz (574Mbps), 5GHz (2400Mbps), 6GHz (2400Mbps)
Bluetooth Version	5.3
Antennas	2x 5dBi High-Gain Antennas

Compatible Devices	Desktop, Game Console, Headphone, Keyboard, Mouse
Operating Systems	Windows 10/11 (64-bit), Linux
Item Weight	7 ounces
Package Dimensions	8.78 x 5.43 x 1.02 inches

## 4. SETUP GUIDE

Follow these steps to install your WAVLINK AXE5400 PCIe adapter:

1. **Prepare Your PC:** Power off your computer and unplug all cables. Open the PC case to access the motherboard.
2. **Install the PCIe Card:** Locate an available PCIe slot (X1, X4, X8, or X16). Carefully insert the WAVLINK AXE5400 adapter into the slot until it is firmly seated. Secure the card with a screw if your case requires it.

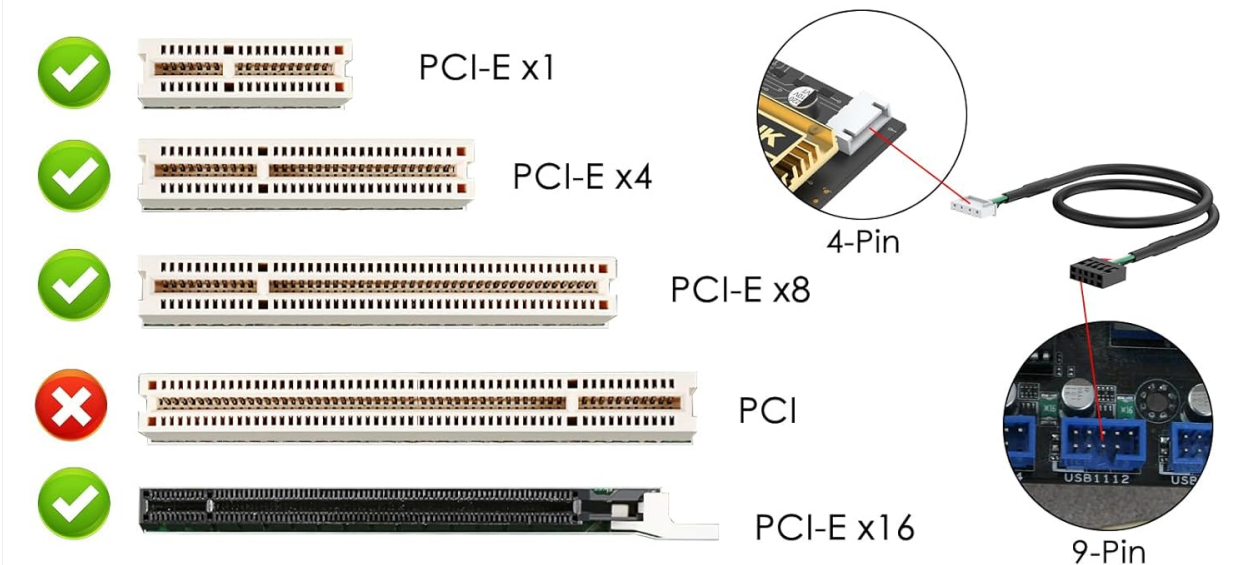


Image: Diagram showing compatible PCIe slots and the Bluetooth USB header connection.

3. **Connect Bluetooth Cable (Optional):** For Bluetooth functionality, connect the small end of the provided Bluetooth cable to the adapter's Bluetooth header. Connect the other end (9-pin USB connector) to an available F\_USB header on your motherboard.
4. **Attach Antennas:** Connect the two high-gain antennas to the gold-plated connectors on the back of the PCIe card. You can adjust their angle for optimal signal reception.



Image: The WAVLINK AXE5400 PCIe card with its two high-gain antennas and Bluetooth cable.

5. **Close PC Case:** Once the card and cables are securely installed, close your PC case.

6. **Power On and Install Drivers:** Reconnect all cables and power on your computer. Visit the official WAVLINK website ([www.wavlink.com/en\\_us/drivers.html](http://www.wavlink.com/en_us/drivers.html)) to download the latest drivers for your specific model (WN675X3-C). Install both the Wi-Fi and Bluetooth drivers.

## Installation Video Guide

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Video: A detailed guide on installing the WAVLINK WiFi 6E PCIe AX5400M WiFi Card with Bluetooth 5.3 into a desktop computer, covering physical installation and driver setup.

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Video: An unboxing and installation overview of the WAVLINK PCIe WiFi 6E WiFi Card, demonstrating the physical setup process within a PC case.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Connecting to Wi-Fi

1. After successful driver installation, click on the Wi-Fi icon in your system tray (usually bottom-right corner of the screen).
2. A list of available wireless networks will appear. Select your desired network (2.4GHz, 5GHz, or 6GHz band).
3. Enter the network security key (password) if prompted, and click 'Connect'.
4. Your computer should now be connected to the Wi-Fi network.

### 5.2. Connecting Bluetooth Devices

1. Ensure the Bluetooth cable is connected to your motherboard's USB header and the adapter.
2. Go to your computer's 'Settings' (e.g., Windows: Start Menu > Settings > Bluetooth & devices).
3. Turn on Bluetooth.
4. Put your Bluetooth device (e.g., headphones, keyboard, mouse) into pairing mode.
5. On your computer, click 'Add device' or 'Add Bluetooth or other device' and select 'Bluetooth'.
6. Select your device from the list and follow any on-screen prompts to complete the pairing process.



Image: Diagram illustrating Bluetooth 5.3 connectivity with various devices like keyboards, mice, gamepads, and audio devices.

## 6. MAINTENANCE

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- **Driver Updates:** Regularly check the WAVLINK website for updated drivers to ensure optimal performance and compatibility.
- **Physical Inspection:** Periodically check the antenna connections and the PCIe card's seating within the slot to ensure they are secure.



- **Cleaning:** Keep your PC case and the adapter free from dust to maintain proper airflow and heat dissipation.

## 7. TROUBLESHOOTING

- **No Wi-Fi or Bluetooth Detected:**

- Ensure the PCIe card is correctly seated in its slot.
- Verify that the Bluetooth cable is securely connected to both the adapter and the motherboard's USB header.
- Check Device Manager (Windows) to see if the adapter is recognized and if there are any driver issues. Reinstall drivers if necessary.

- **Poor Signal Strength or Slow Speeds:**

- Adjust the position and angle of the external antennas for better reception.
- Ensure your Wi-Fi router supports Wi-Fi 6E and is configured for optimal performance.
- Minimize obstructions between your PC and the Wi-Fi router.
- Update your Wi-Fi router's firmware.

- **Bluetooth Device Not Pairing:**

- Ensure the Bluetooth cable is properly connected.
- Verify your Bluetooth device is in pairing mode and within range.
- Remove and re-add the Bluetooth device in your computer's settings.

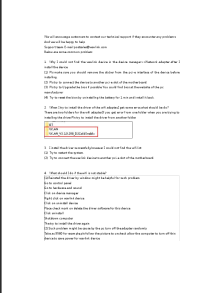
## 8. WARRANTY AND SUPPORT






The WAVLINK AXE5400 PCIe adapter comes with a **12-month warranty**. Registered users may receive an extended **18-month warranty**. Lifetime technical support is also provided.

For technical assistance or warranty claims, please contact WAVLINK support:

- **Email:** [support@wavlink.com](mailto:support@wavlink.com)
- **Live Chat Support:** Visit [www.wavlink.com](http://www.wavlink.com)
- **Phone (US Local):** +1(888)973-0883 (Mon-Fri 09:00 am - 10:00 pm UTC-5)

### Related Documents - AXE5400

	<p><a href="#">Wavlink WiFi Adapter Troubleshooting Guide</a></p> <p>A troubleshooting guide for common issues encountered with Wavlink WiFi adapters, including device detection, driver installation, and WiFi connectivity problems. Provides step-by-step solutions and configuration advice.</p>
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	<p><a href="#">WAVLINK Router Configuration: Setting Up Without AP Mode</a></p> <p>Step-by-step guide to configure your WAVLINK router by changing its LAN IP address and disabling DHCP, useful when the AP mode is unavailable. Learn how to connect it to your main router.</p>
	<p><a href="#">Wavlink WiFi Extender Troubleshooting Guide and FAQ</a></p> <p>Comprehensive troubleshooting guide and frequently asked questions for Wavlink WiFi extenders, covering common issues like disconnections, slow speeds, setup problems, and optimizing coverage.</p>
	<p><a href="#">Wavlink Device Troubleshooting Guide: 5G Speed, NBN Network, and Connectivity Issues</a></p> <p>A comprehensive guide to resolving common issues with Wavlink wireless networking devices, including problems with 5G speed, NBN network compatibility, and signal detection.</p>
	<p><a href="#">Wavlink AC1200 Outdoor Access Point Quick Start Guide</a></p> <p>A quick start guide for the Wavlink AC1200 Dual Band High-Power Outdoor Access Point, covering hardware overview, installation, configuration modes (AP, Repeater, Mesh Router, Mesh Extender), firmware upgrades, and FAQs.</p>
	<p><a href="#">Wi-Fi 6 AX1800 Dual-Band Outdoor AP/Repeater/Mesh Extender Safety and Technical Data</a></p> <p>Comprehensive safety instructions, intended use, usage restrictions, and technical specifications for the Wavlink Wi-Fi 6 AX1800 Dual-Band Outdoor AP/Repeater/Mesh Extender (Item No. 3062490).</p>