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> WAVLINK AX5400M WiFi 6E PCIe Network Card Instruction Manual

WAVLINK AX5400M

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Instruction Manual

INTRODUCTION

The WAVLINK AX5400M WiFi 6E PCIe Network Card is designed to upgrade your desktop PC with the latest Wi-Fi 6E technology, offering enhanced speed, lower latency, and broader coverage. This tri-band adapter supports 2.4GHz, 5GHz, and the new 6GHz frequency bands, along with Bluetooth 5.3 for seamless connectivity with various devices. This manual provides detailed instructions for installation, operation, and troubleshooting to ensure optimal performance.



Image: The WAVLINK AX5400M WiFi 6E PCIe Network Card with its external antenna base, illustrating its modern design and connectivity capabilities.

WHAT'S IN THE BOX

Please verify that all components are present before proceeding with the installation.

- WiFi 6E AX5400 Triple Band PCI-E Adapter
- Bluetooth Cable

- External Antenna with Magnetized Base
- Low Profile Bracket
- Screws



Image: A visual representation of the WAVLINK AX5400M PCIe card, the external antenna with its magnetic base, and the connecting cables, as typically found in the product packaging.

SETUP

1. Hardware Installation

1. **Power Off Your PC:** Ensure your computer is completely shut down and unplugged from the power source.
2. **Open PC Case:** Remove the side panel of your computer case to access the motherboard.

3. **Locate PCIe Slot:** Find an available PCIe X1/X4/X8/X16 slot on your motherboard. *Note: This card is not compatible with PCI slots.*
4. **Prepare the Card:** Before inserting, **remove the protective plastic film from the gold-plated fingers** on the PCIe card.
5. **Insert the Card:** Carefully align the network card with the chosen PCIe slot and press it firmly until it is securely seated.
6. **Connect Bluetooth Cable:** Connect one end of the provided Bluetooth cable to the 9-pin USB header on the network card and the other end to an available 9-pin USB header on your motherboard. This connection is essential for Bluetooth functionality.
7. **Attach Antennas:** Screw the external antennas onto the connectors on the network card. The magnetized base allows for flexible placement on your desktop or PC chassis for optimal signal reception.
8. **Secure and Close:** Secure the network card with a screw if necessary, then close your PC case and reconnect the power.



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

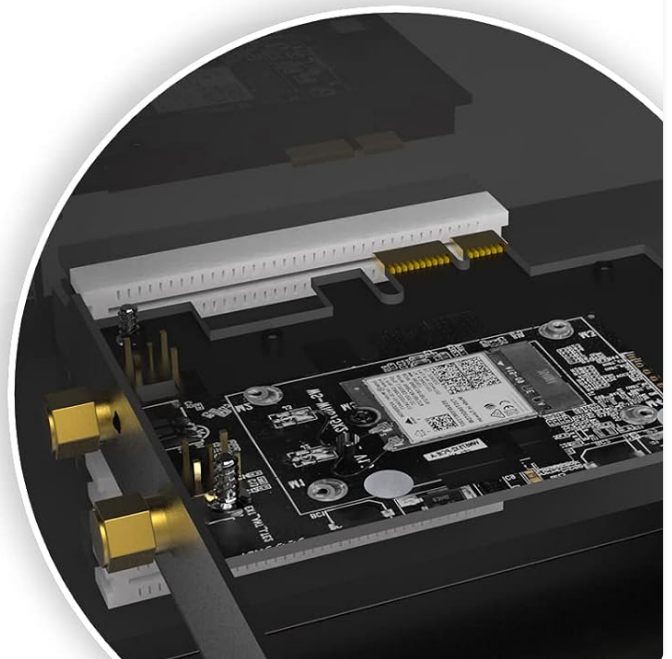


Image: A close-up view highlighting the gold-plated fingers of the PCIe card and a warning to remove the protective plastic film before installation to ensure proper contact.

Broader Reception & Flexible Deployment



2X5dBi
Antennas



Magnetized
Base



3.6ft RF
Cable

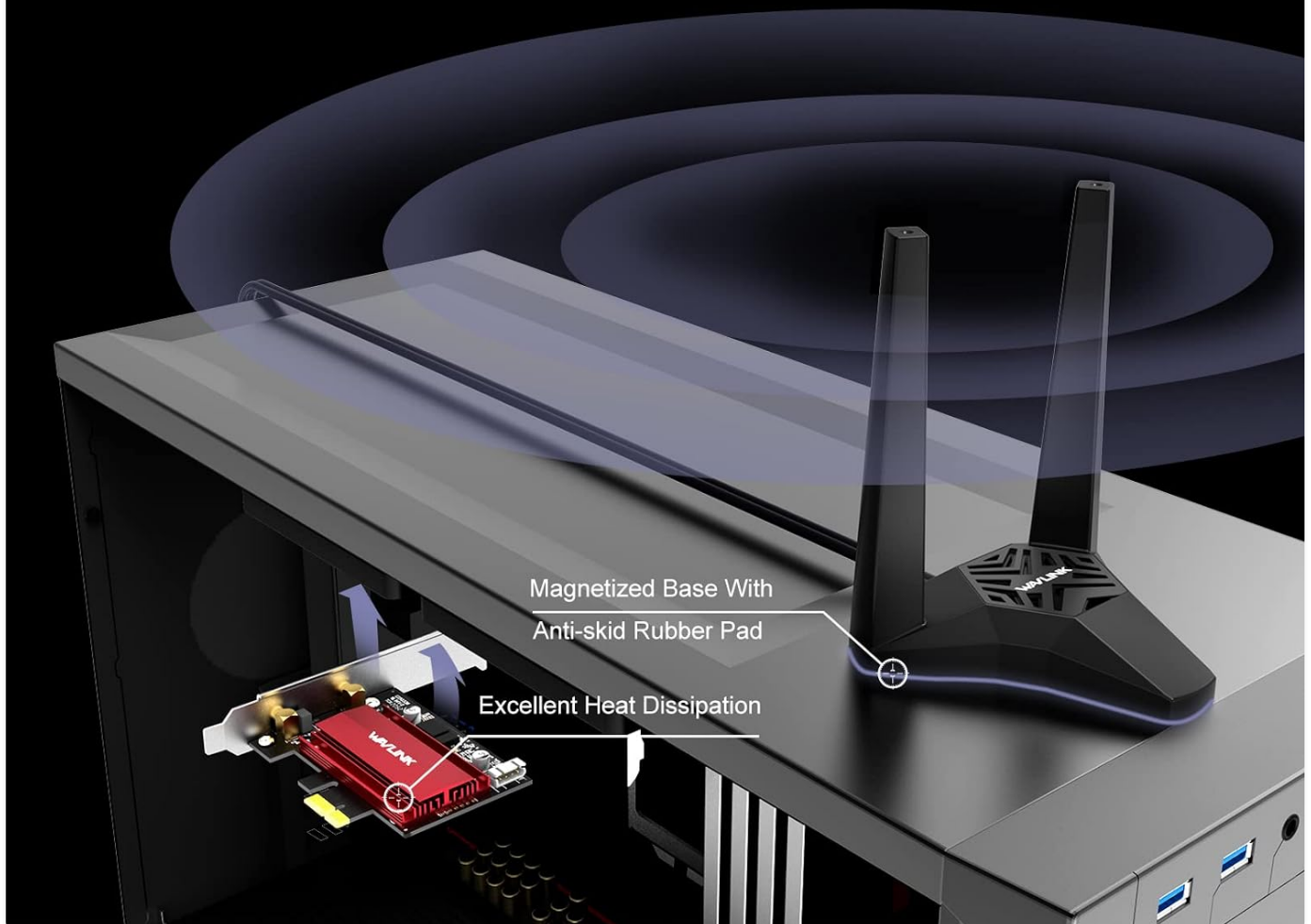


Image: An illustration demonstrating the flexible placement of the external antennas with their magnetized base, allowing for optimal signal reception when placed on top of a PC case.

2. Driver Installation

After hardware installation, you will need to install the drivers for the network card to function correctly.

- **Supported Operating Systems:** Windows 10/11 (64-bit) and Linux.
- **Driver Download:** Drivers can be obtained from the official WAVLINK website. Visit www.wavlink.com and navigate to the support section for your specific model.
- **Installation Process:** Follow the on-screen instructions provided by the driver installer. A restart of your PC may be required after installation.

Compatible Systems

**Windows 10/11
(64-bit)**

Linux

Image: A graphic indicating compatibility with Windows 10/11 (64-bit) and Linux operating systems.

OPERATING

Wi-Fi Connectivity

Once drivers are installed, your PC will detect available Wi-Fi networks. Select your desired network and enter the password to connect. The AX5400M supports tri-band operation (2.4GHz, 5GHz, and 6GHz) for optimized performance.

- **2.4GHz Band:** Ideal for longer range and penetrating obstacles, suitable for general web browsing and email.
- **5GHz Band:** Provides higher speeds and lower latency, best for gaming and 4K streaming.
- **6GHz Band (Wi-Fi 6E):** Offers the highest speeds and lowest latency with minimal interference, perfect for ultra-smooth real-time gaming and immersive VR experiences.

WiFi 6E with Powerful Tri-Band Speeds

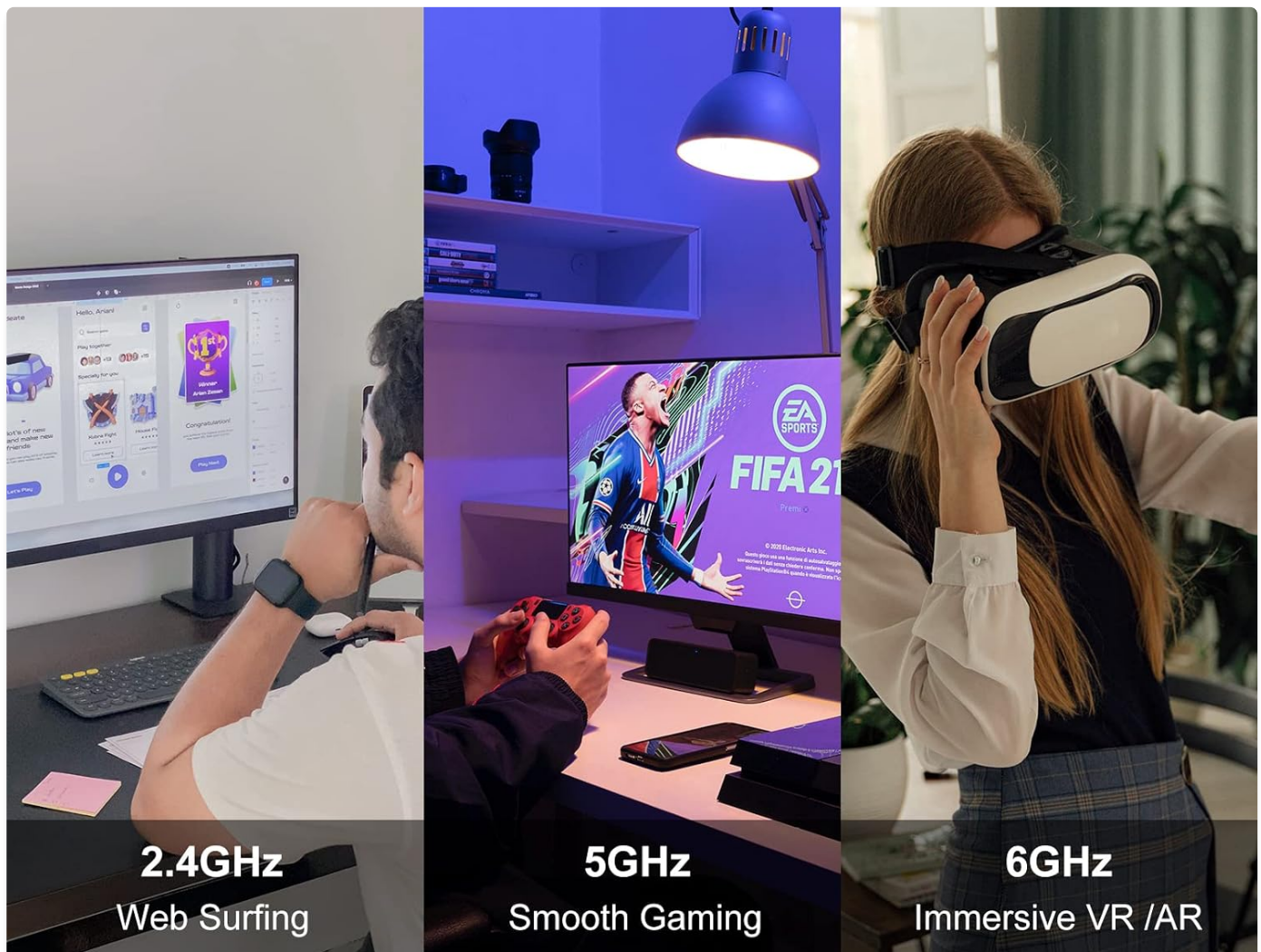
2400Mbps
6GHz

2400Mbps
5GHz

574Mbps
2.4GHz



Image: A visual representation of the tri-band capabilities, showing 2400Mbps on 6GHz, 2400Mbps on 5GHz, and 574Mbps on 2.4GHz, with a PC setup in the background.



2.4GHz
Web Surfing

5GHz
Smooth Gaming

6GHz
Immersive VR /AR

Tri-Band Wi-Fi for Extreme Speeds

Experience hyper fast wireless speeds like never before with next-gen Wi-Fi 6E technology.

Image: Depicts different usage scenarios for each Wi-Fi band: 2.4GHz for web surfing, 5GHz for smooth gaming, and 6GHz for immersive VR/AR experiences, highlighting the benefits of tri-band Wi-Fi.

Bluetooth Pairing

The integrated Bluetooth 5.3 allows you to connect various Bluetooth-enabled devices to your PC.

1. **Enable Bluetooth:** Ensure Bluetooth is enabled in your operating system settings.
2. **Pair Device:** Put your Bluetooth device (e.g., headphones, keyboard, mouse, gamepad) into pairing mode.
3. **Add Device:** On your PC, go to Bluetooth settings and select 'Add device' or 'Pair new device'.
4. **Select and Connect:** Choose your device from the list and follow any on-screen prompts to complete the pairing process.

Bluetooth 5.3 for Greater Speed & Broader Coverage



Image: A diagram illustrating the enhanced capabilities of Bluetooth 5.3, including 2x faster speeds, 4x greater range, and 8x improved efficiency for connecting various peripherals like keyboards, gamepads, and audio devices.

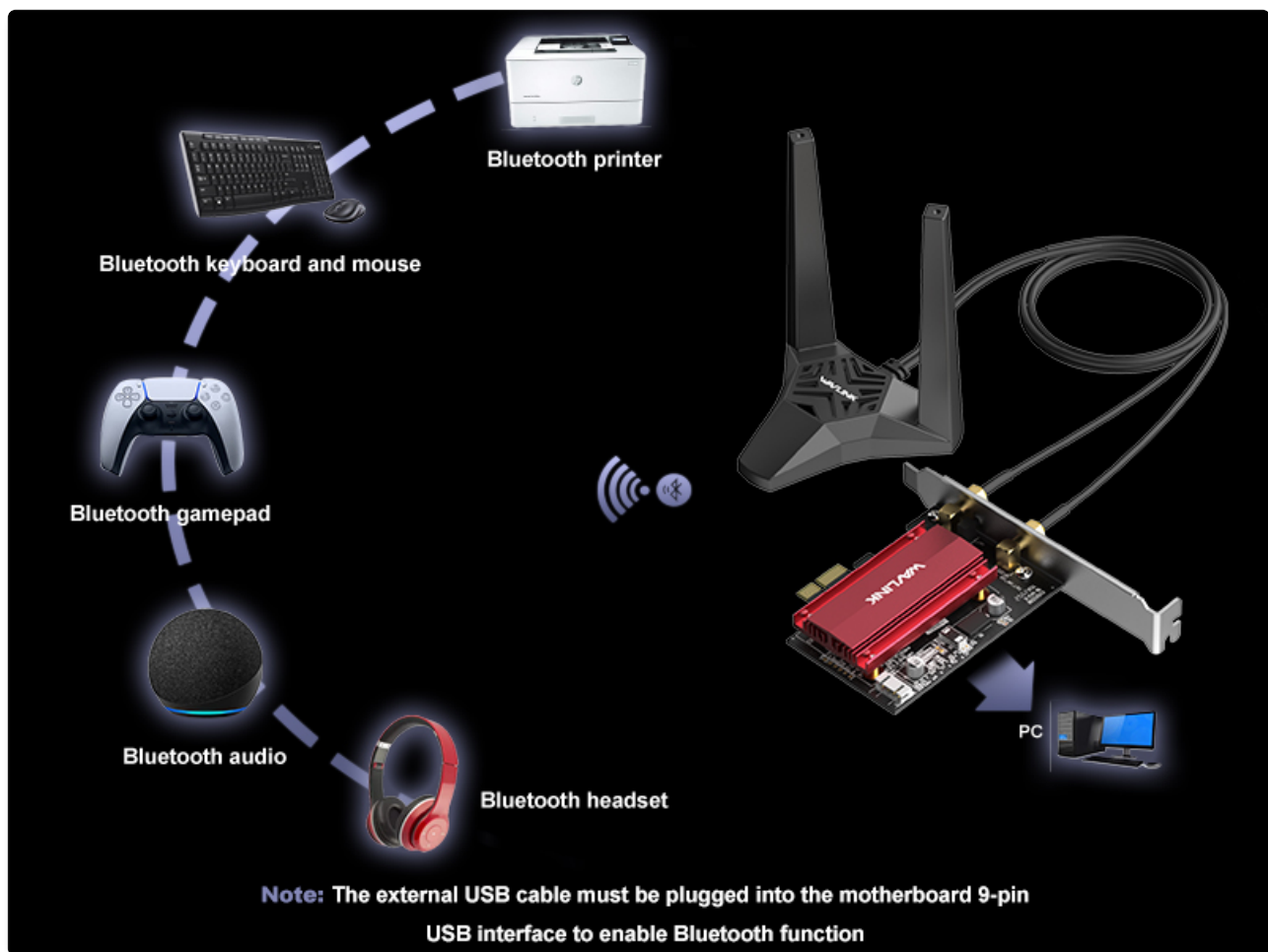


Image: A comprehensive diagram showing how various Bluetooth devices such as keyboards, mice, gamepads, audio devices, headsets, and printers can connect wirelessly to the PC via the network card's Bluetooth function. A note emphasizes the necessity of connecting the external USB cable to the motherboard's 9-pin USB interface for Bluetooth functionality.

MAINTENANCE

To ensure the longevity and optimal performance of your WAVLINK AX5400M network card, consider the following maintenance tips:

- **Keep Drivers Updated:** Regularly check the WAVLINK website for the latest driver updates to ensure compatibility and performance improvements.
- **Ensure Proper Airflow:** Make sure your PC case has adequate ventilation to prevent overheating, which can affect the card's performance. The integrated heat sink helps with heat dissipation.
- **Clean Dust:** Periodically clean dust from inside your PC case, especially around the network card and its heat sink, using compressed air.
- **Secure Connections:** Ensure all cables (PCIe card, Bluetooth cable, antenna cables) remain securely connected.

TROUBLESHOOTING

If you encounter issues with your WAVLINK AX5400M network card, refer to the following common problems and solutions:

Problem	Solution
No Wi-Fi connection / Card not detected	Ensure the card is fully seated in the PCIe slot. Verify that the plastic film was removed from the gold-plated fingers. Install the correct drivers from the WAVLINK website. Check Device Manager for any errors or unknown devices.
Bluetooth not working	Confirm the Bluetooth cable is securely connected to both the card and the motherboard's 9-pin USB header. Ensure Bluetooth is enabled in your operating system settings. Reinstall Bluetooth drivers.
Slow Wi-Fi speeds or frequent disconnections	Ensure antennas are securely attached and positioned for optimal signal. Update Wi-Fi drivers to the latest version. Check for interference from other devices or networks. Try connecting to a different Wi-Fi band (2.4GHz, 5GHz, or 6GHz). Ensure your router supports Wi-Fi 6E for optimal performance on the 6GHz band.
System instability after installation	Ensure the card is properly seated and secured. Verify that your power supply is sufficient for all components. Perform a clean driver installation.

Minimized Lag for Your PC

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

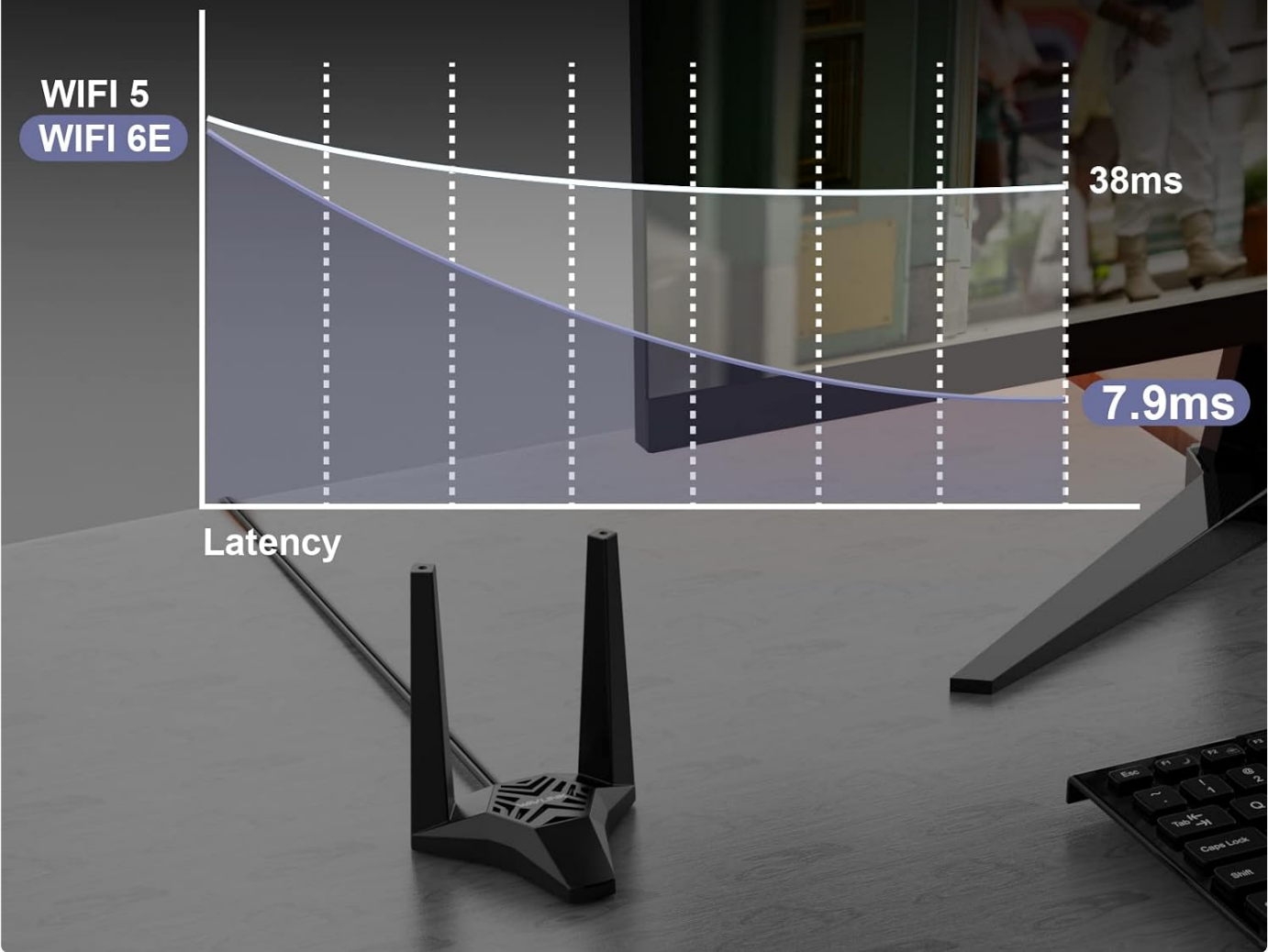


Image: A graph illustrating the significant reduction in latency from WiFi 5 (38ms) to WiFi 6E (7.9ms), demonstrating improved responsiveness for gaming and streaming.

SPECIFICATIONS

Feature	Detail
Model	AX5400M
Wi-Fi Standard	802.11ax (Wi-Fi 6E)
Chipset	Intel AX210

Feature	Detail
Frequency Bands	2.4GHz, 5GHz, 6GHz (Tri-Band)
Max Speeds	Up to 574Mbps (2.4GHz), 2400Mbps (5GHz), 2400Mbps (6GHz)
Bluetooth Version	Bluetooth 5.3
Interface	PCIe X1/X4/X8/X16
Antennas	Two external 5dBi antennas with magnetized base
Security	WPA3
Features	OFDMA, MU-MIMO, 1024QAM, Target Wake Time (TWT)
Compatible OS	Windows 10/11 (64-bit), Linux
Dimensions (Card)	8.5cm x 6.5cm (approx. 3.4 x 2.6 inches)
Antenna Cable Length	3.6ft (approx. 110cm)
Item Weight	10.6 ounces (approx. 300 grams)

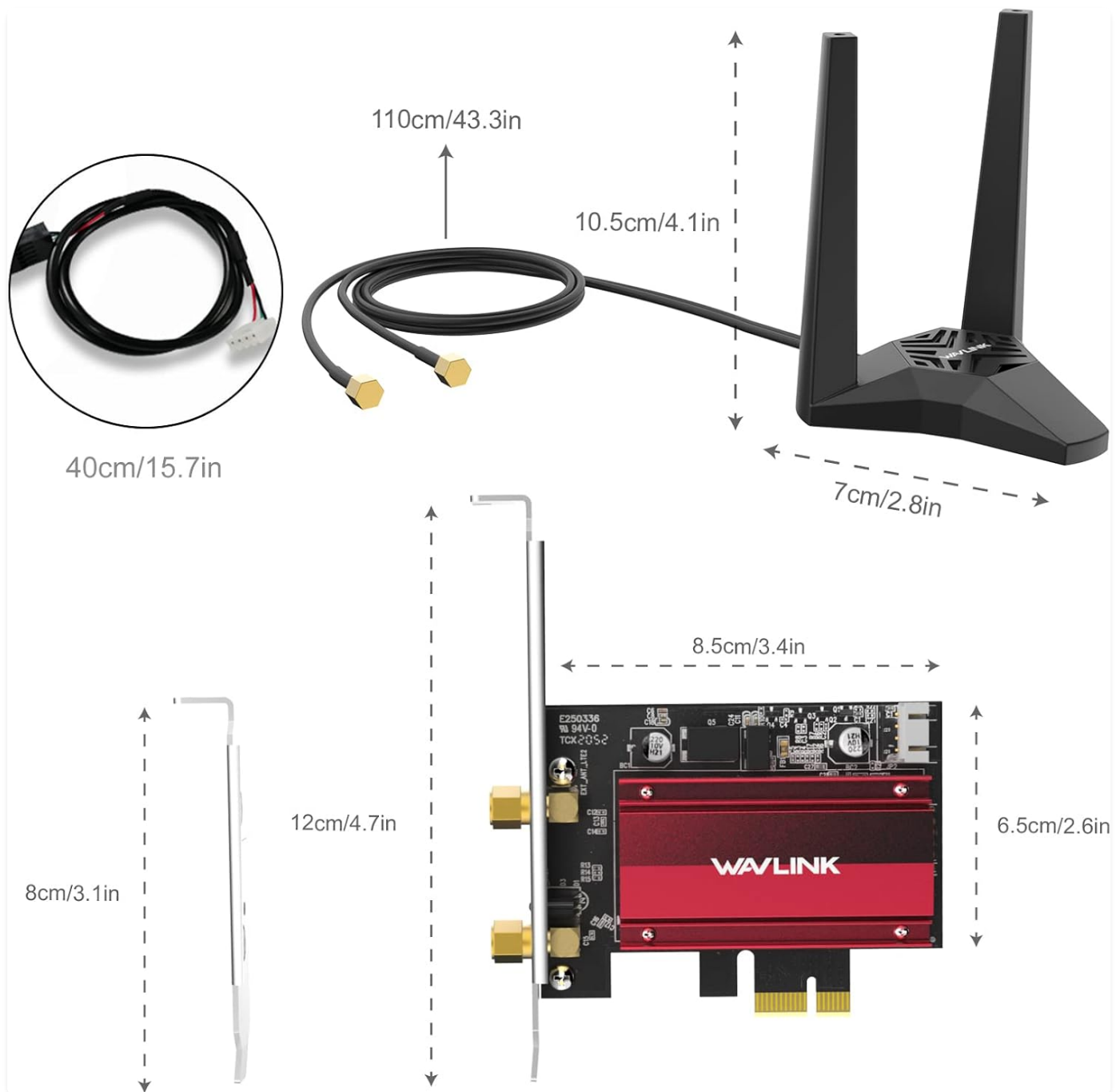


Image: A detailed diagram showing the physical dimensions of the WAVLINK AX5400M PCIe card, the low-profile bracket, and the external antenna with its cable length.

WARRANTY AND SUPPORT

WAVLINK provides comprehensive support for its products.

- **Warranty:** The product comes with a 12-month worry-free warranty. Registered members may receive an extra 6 months of warranty.
- **Technical Support:** Life-long technical support is available.
- **Contact Information:** For any problems or inquiries, please feel free to contact WAVLINK customer support.

You can visit the official WAVLINK website for more information and support resources: www.wavlink.com

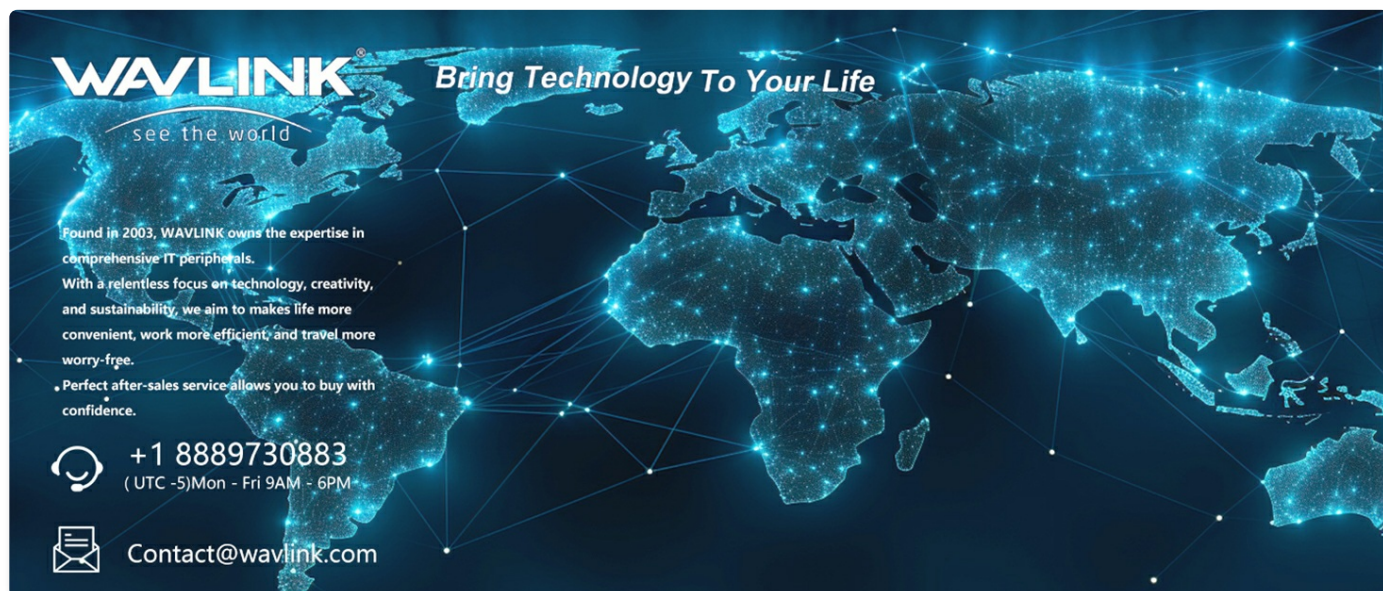


Image: A global map graphic representing WAVLINK's commitment to bringing technology to life, with contact information for support.

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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.

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Anonymous

Email

you@example.com

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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

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