DERAPID AX1800

DERAPID AX1800 WiFi 6 PCIe Wireless Card and Bluetooth 5.2 Adapter User Manual

Model: AX1800

Brand: DERAPID

Product Overview

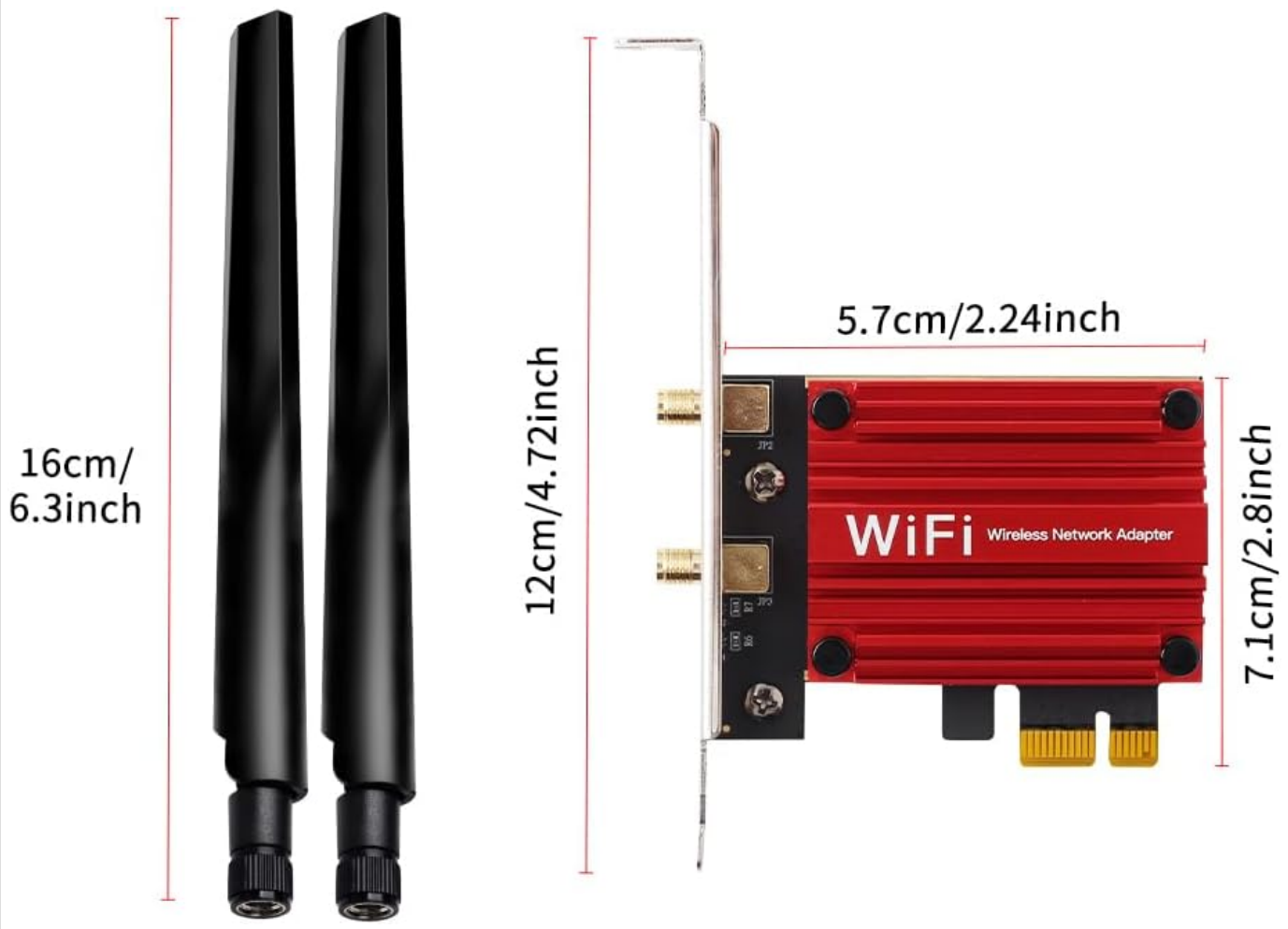
The DERAPID AX1800 is a high-performance WiFi 6 PCIe wireless card with integrated Bluetooth 5.2, designed to upgrade your desktop PC's wireless capabilities. It offers fast, stable, and efficient connectivity for various applications.

- **WiFi 6 & Bluetooth 5.2 Technology:** The card features WiFi 6 (802.11ax) technology, offering up to 1800Mbps high-speed data transmission and reduced latency compared to WiFi 5. Integrated Bluetooth 5.2 provides stable connections for peripherals like gaming headsets, mice, and keyboards.
- **MT7921 Chipset for Stable Performance:** Equipped with the MT7921 chipset, this card utilizes MU-MIMO and OFDMA technologies to minimize lag, disconnections, and signal interference, ensuring stable performance for multi-tasking and multiple devices.
- **Dual Band 5GHz/2.4GHz Flexible Connection:** It supports dual-band operation, with a 5GHz band offering up to 1201Mbps for high-demand activities like gaming and 4K video, and a 2.4GHz band providing up to 574Mbps for stable, longer-range daily use. Automatic band selection helps maintain a smooth internet experience.
- **Wide Compatibility & Easy Installation:** Designed for Windows 10/11 (64-bit) desktop PCs, the card features a standard PCIe x1 interface for straightforward plug-and-play installation, requiring only simple driver setup.
- **High-Gain Antennas for Stronger Signal:** Two 6dBi high-gain antennas are included to enhance signal reception and extend wireless coverage, contributing to a more stable connection and faster response in environments with multiple devices.

Package Contents

Please verify that all items are present in your package:

- 1x DERAPID AX1800 WiFi 6 PCIe Wireless Card
- 2x High-Gain Antennas
- 1x Low Profile Bracket
- 1x Bluetooth Cable
- Mounting Screws



All components included in the DERAPID AX1800 package: wireless card, low profile bracket, Bluetooth cable, and high-gain antennas.

Setup and Installation

System Requirements

- Operating System: Windows 10/11 (64-bit)
- Available PCIe slot (x1, x4, x8, or x16)
- Available 9-pin USB header on motherboard (for Bluetooth functionality)

Hardware Installation

Follow these steps to install the DERAPID AX1800 card into your desktop computer:

Step 1: Prepare Your Computer

- Power off your computer completely and unplug all power cables.
- Open the computer case to access the motherboard.

Step 2: Install the PCIe Card

- Locate an available PCIe slot (x1, x4, x8, or x16) on your motherboard.
- Carefully insert the DERAPID AX1800 card into the chosen PCIe slot until it is firmly seated.
- Secure the card with a screw to the computer case's expansion slot.

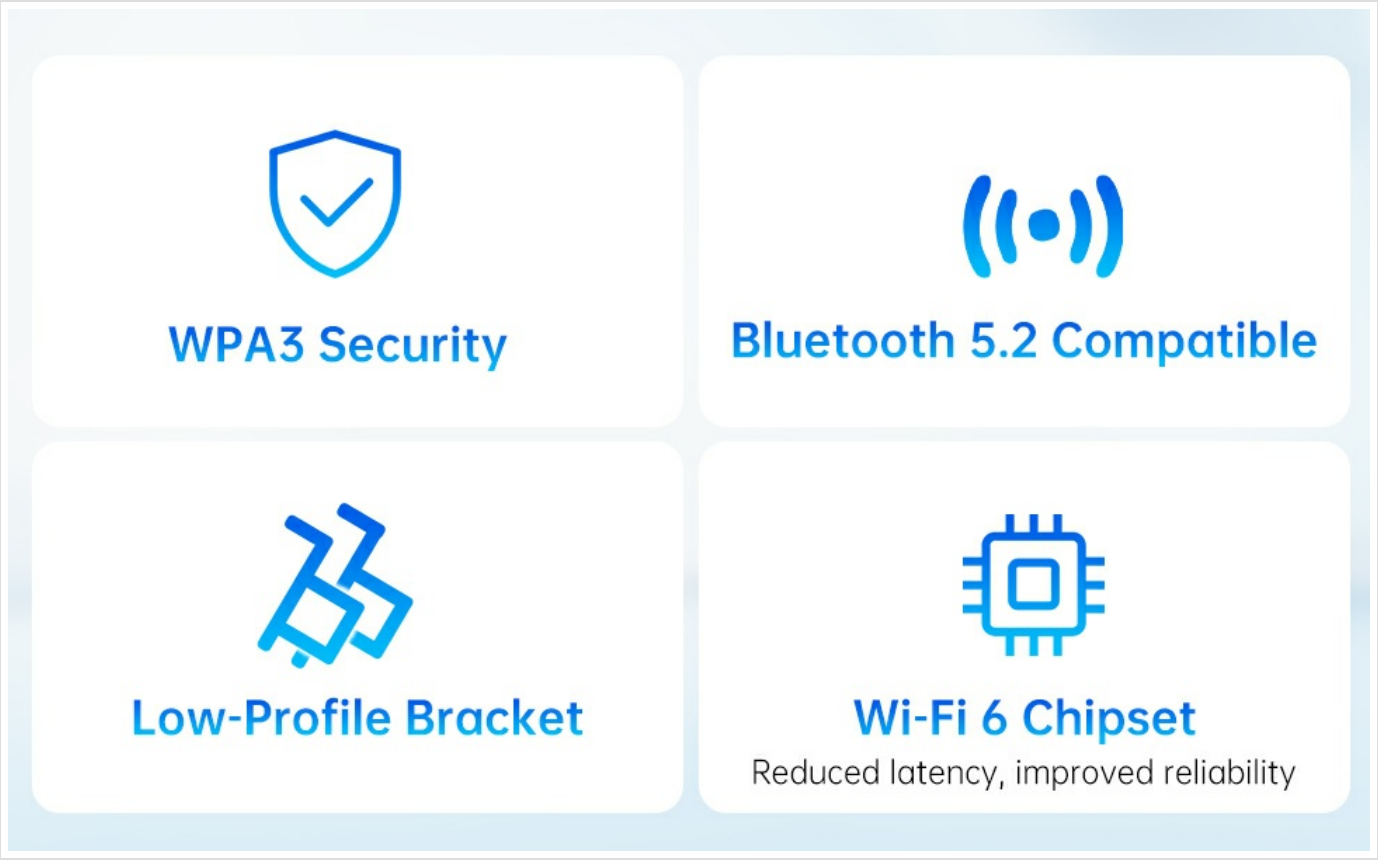


Diagram showing compatible PCIe slots (x1, x4, x8, x16) and an incompatible PCI slot.

Step 3: Connect the Bluetooth Cable

- Connect the small end of the provided Bluetooth cable to the 4-pin header on the DERAPID AX1800 card.
- Connect the other end of the Bluetooth cable to an available 9-pin USB header on your motherboard. This connection is essential for Bluetooth functionality.

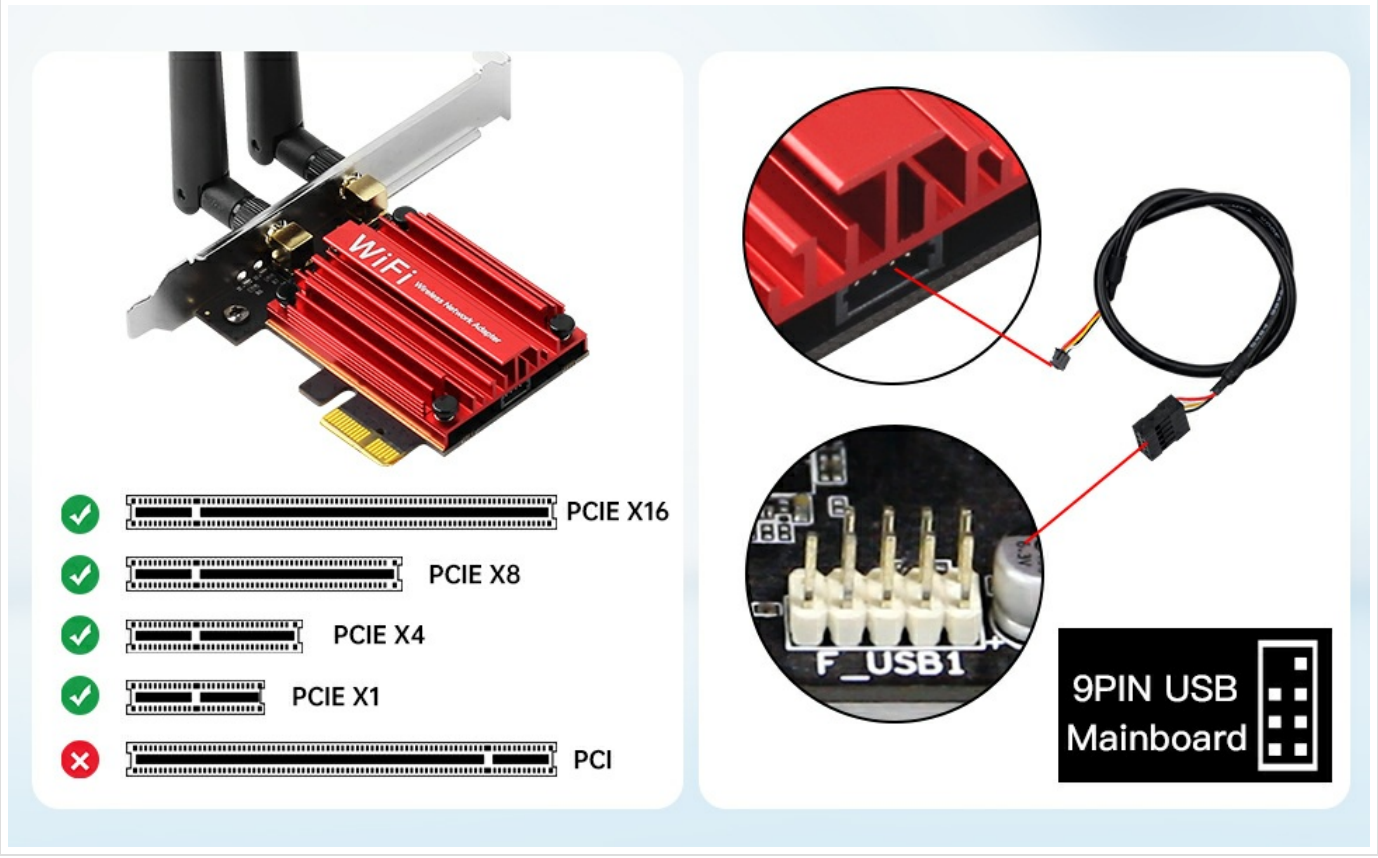


Illustration of connecting the Bluetooth cable to the PCIe card and motherboard USB header.

Step 4: Attach Antennas

- Screw the two high-gain antennas onto the gold-plated connectors on the back of the DERAPID AX1800 card. Ensure they are finger-tight.



The DERAPID AX1800 WiFi 6 PCIe Wireless Card with two antennas attached.

Step 5: Close Case and Power On

- Close your computer case and reconnect all power and peripheral cables.
- Power on your computer.

Driver Installation

Windows 10/11

- After booting into Windows, the system may automatically detect and install the necessary drivers for both Wi-Fi and Bluetooth.
- If drivers are not installed automatically, or if you experience issues, download the latest drivers from the

DERAPID official website. Refer to the product packaging or manufacturer's support page for the exact URL.

- Install the downloaded drivers by following the on-screen instructions. A system restart may be required after installation.

Your browser does not support the video tag.

Video demonstrating the step-by-step installation process for a PCIe Wi-Fi card, including connecting antennas and the Bluetooth cable.

Operating Instructions

Connecting to a Wi-Fi Network

- Ensure the Wi-Fi card drivers are successfully installed.
- Click the Wi-Fi icon (usually located in the system tray on the bottom right of your screen).
- Select your desired network from the list of available networks and click "Connect".
- Enter the network security key (password) if prompted, then click "Next" or "Connect".

Using Bluetooth

- Ensure the Bluetooth cable is correctly connected and Bluetooth drivers are installed.
- Go to Windows Settings > Devices > Bluetooth & other devices.
- Toggle the Bluetooth switch to the "On" position.
- Click "Add Bluetooth or other device" and follow the on-screen instructions to pair your Bluetooth devices (e.g., headphones, mouse, keyboard).

Product Specifications

Feature	Detail
Brand	DERAPID
Model	AX1800
Hardware Interface	PCIe x1, x4, x8, x16
Data Link Protocol	802.11ax (WiFi 6), Bluetooth 5.2
Data Transfer Rate	Up to 1800 Mbps (5GHz: 1201Mbps, 2.4GHz: 574Mbps)
Chipset	MT7921
Compatible Operating Systems	Windows 10/11 (64-bit)
Antennas	2x 6dBi High-Gain Antennas
Dimensions (L x W x H)	5.67" x 3.27" x 0.7" (144mm x 83mm x 18mm)
Color	Red
Built-In Media	Low profile bracket, Bluetooth cable



Detailed dimensions of the DERAPID AX1800 WiFi 6 PCIe Wireless Card.

Troubleshooting

No Wi-Fi Connection

- **Check physical installation:** Ensure the card is fully seated in the PCIe slot and antennas are securely attached.
- **Driver installation:** Verify that the correct drivers for Windows 10/11 (64-bit) are installed. Reinstall if necessary. Check Device Manager for any yellow exclamation marks next to the network adapter.
- **Router compatibility:** Ensure your router is powered on and functioning correctly. While the card is backward compatible, a Wi-Fi 6 router is recommended for optimal performance.

Bluetooth Not Working

- **Bluetooth cable:** Confirm the Bluetooth cable is correctly connected to both the card's 4-pin header and the motherboard's 9-pin USB header.
- **Driver installation:** Ensure Bluetooth drivers are installed. Check Device Manager for Bluetooth devices and update or reinstall drivers if needed.
- **Windows Bluetooth settings:** Verify Bluetooth is enabled in Windows settings (Settings > Devices > Bluetooth & other devices).

Slow Speeds or Frequent Disconnections

- **Antenna position:** Adjust antenna orientation for better signal reception. Try different angles.
- **Interference:** Move the computer away from other electronic devices (e.g., microwaves, cordless phones) that may cause wireless interference.
- **Driver update:** Ensure you have the latest drivers from the manufacturer's website.
- **Router settings:** Check your router's settings for optimal channel selection and ensure its firmware is up to date.
- **Signal strength:** Use Windows Wi-Fi settings to check signal strength. If very low, consider repositioning the computer or router closer to each other.

Maintenance

To ensure the longevity and optimal performance of your DERAPID AX1800 wireless card, consider the following maintenance tips:

- **Keep drivers updated:** Regularly check the manufacturer's website for the latest driver updates. Updated drivers often include performance improvements, bug fixes, and security enhancements.
- **Clean antennas:** Periodically wipe the antennas and the exposed part of the card with a dry, soft, anti-static cloth to prevent dust buildup, which can affect signal quality.
- **Ensure proper airflow:** Make sure your computer case has adequate ventilation to prevent overheating of internal components, including the wireless card. Overheating can lead to reduced performance and component lifespan.

Warranty and Support

This DERAPID AX1800 WiFi 6 PCIe Wireless Card comes with a**1-year warranty** from the date of purchase.

For technical support, driver downloads, or to inquire about warranty claims, please contact DERAPID customer service directly or visit the official DERAPID website. Please have your product model (AX1800) and purchase information ready when contacting support.

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