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› **USB WiFi Adapter for PC Desktop - WiFi 6 AX1800Mbps 5GHz 2.4GHz USB 3.0 Wireless Wi-Fi Network Adapter for Desktop Computer Laptop with High Gain Wi-Fi Antenna Supports Win11/10 Black**

Nineplus N21CA

Nineplus USB WiFi 6 AX1800Mbps Adapter User Manual

Model: N21CA

1. INTRODUCTION

This manual provides instructions for the Nineplus USB WiFi 6 AX1800Mbps Adapter, Model N21CA. This device is designed to upgrade your desktop PC or laptop to the latest Wi-Fi 6 standard, offering enhanced speed and performance for wireless connectivity. It supports dual-band operation (5GHz and 2.4GHz) and utilizes a USB 3.0 interface for optimal data transfer rates. Please read this manual carefully before using the product.

2. PRODUCT OVERVIEW

2.1. What's in the Box

- AX1800 WI-FI Adapter
- User Manual
- USB Flash Driver

2.2. Key Features

- **1800Mbps High Wi-Fi Speed:** Up to 1201Mbps on 5GHz band or 574Mbps on 2.4GHz band.
- **Dual Band 5GHz and 2.4GHz:** Provides flexible connectivity options for various network environments.
- **Plug and Play Easy Setup:** Automatic driver installation for Windows 11/10.
- **Tiny Design:** Compact form factor to avoid blocking adjacent USB interfaces.
- **High Gain Wi-Fi Antenna:** Enhances reception and transmission of Wi-Fi signals for stable connections.
- **Super USB 3.0:** Offers 10 times faster and more stable performance compared to USB 2.0.
- **WPA3 Security Protocol:** Supports WPA3/WPA2/WPA/WEP for enhanced network security.

2.3. Product Visuals

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802.11AX

Figure 1: Front view of the Nineplus USB WiFi 6 AX1800Mbps Adapter, showing the USB 3.0 connector and the 802.11AX branding with a Wi-Fi signal indicator.

Figure 2: Overview of the adapter's key features, including 1800Mbps WiFi 6, tiny size with high gain antenna, USB 3.0, Windows 10/11 compatibility, advanced encryption, and real plug-and-play functionality.
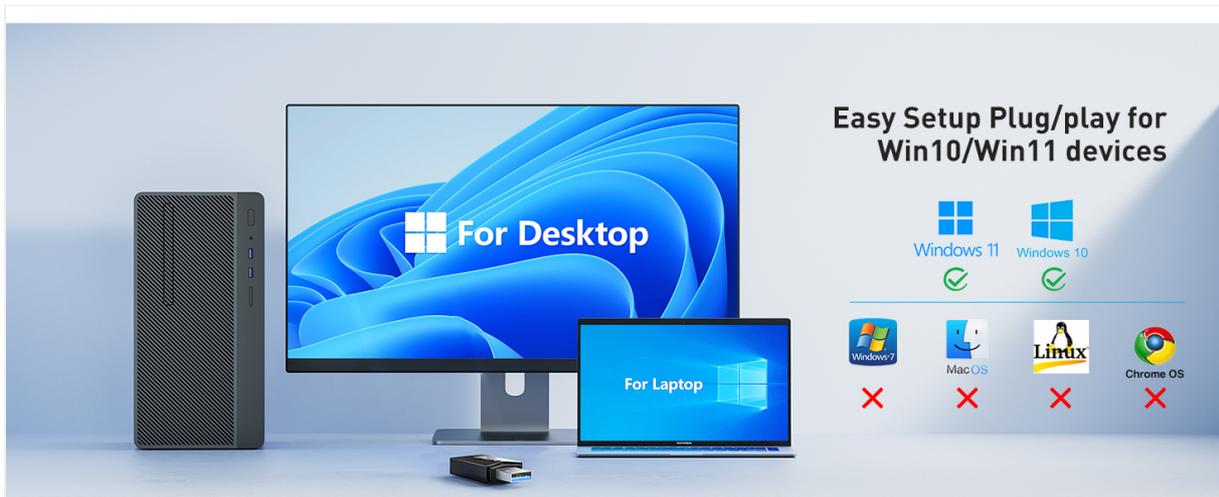
Figure 3: Illustration showing the plug-and-play setup for Windows 10/11 devices, compatible with both desktop PCs and laptops.

Figure 4: The compact size of the USB WiFi adapter, shown next to a coin for scale, highlighting its portability and minimal footprint.

3. SETUP INSTRUCTIONS

1. **Insert the Adapter:** Plug the Nineplus USB WiFi 6 Adapter into an available USB 3.0 port on your desktop PC or laptop. For optimal performance, use a USB 3.0 port (often identified by a blue interior).

2. **Automatic Driver Installation (Windows 11/10):** For Windows 11 and Windows 10 operating systems, the system will typically detect the adapter and automatically install the necessary drivers. Wait for the installation process to complete. A notification will usually appear once the device is ready for use.

3. **Manual Driver Installation (If Needed):** If the driver does not install automatically, or if you encounter issues, use the included USB Flash Driver. Insert the USB Flash Driver into an available USB port, locate the driver setup file, and follow the on-screen instructions to install the driver manually.

4. **Verify Installation:** After installation, check your computer's Device Manager (under 'Network adapters') to ensure the Nineplus AX1800 Wi-Fi Adapter is listed and functioning correctly.

Note: This adapter only supports Windows 11 and Windows 10. It does not support Windows 7, macOS, or other operating systems.

4. OPERATING INSTRUCTIONS

1. **Connect to a Wi-Fi Network:** Once the adapter is installed, click on the Wi-Fi icon in your computer's taskbar (usually in the bottom-right corner).

2. **Select Your Network:** A list of available Wi-Fi networks will appear. Select your desired network (SSID).

3. **Enter Password:** If prompted, enter the Wi-Fi password (security key) for your network.

4. **Connect:** Click 'Connect'. Your computer should now be connected to the Wi-Fi network using the Nineplus USB WiFi 6 Adapter.

5. **Utilizing Dual Band:** The adapter supports both 5GHz and 2.4GHz bands. The 5GHz band offers higher speeds and less interference, ideal for gaming and 4K streaming, but has a shorter range. The 2.4GHz band provides better range and penetration through walls, suitable for general browsing and stable connections over longer distances. Your computer will typically connect to the optimal band automatically, or you may see separate network names for each band from your router.
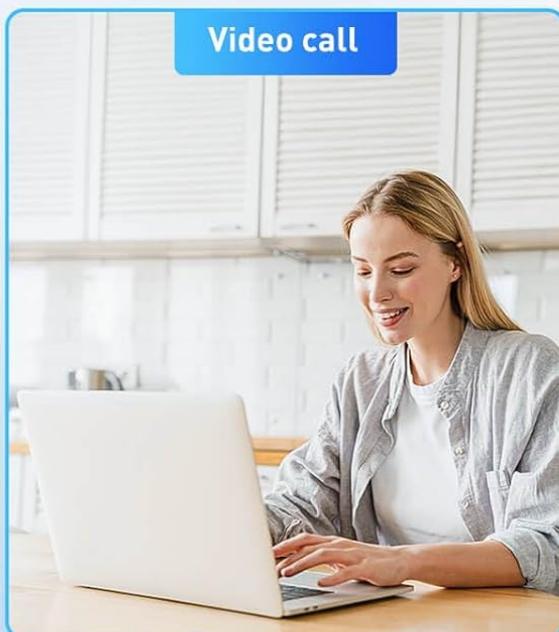

Figure 5: Examples of how the adapter maximizes functions, including smooth gaming, 4K video streaming, clear video

5. MAINTENANCE

- Keep the adapter clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the adapter to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to disassemble or repair the adapter yourself. This may void the warranty.
- Ensure the USB port on your computer is clean and free of debris to maintain a good connection.

6. TROUBLESHOOTING

- **No Wi-Fi Networks Detected:**

  - Ensure the adapter is securely plugged into a USB 3.0 port.
  - Verify that the drivers are correctly installed in Device Manager.
  - Restart your computer and your Wi-Fi router.

- **Slow Connection Speed:**

  - Ensure you are connected to the 5GHz band if your router supports it and you are within range.
  - Minimize physical obstructions between the adapter and your router.
  - Check for other devices causing interference on the same Wi-Fi channel.
  - Confirm your internet service provider's speed and your router's capabilities.

- **Driver Installation Failure:**

  - Ensure your operating system is Windows 11 or Windows 10.
  - Try installing the driver manually using the provided USB Flash Driver.
  - Temporarily disable any antivirus software during installation if it interferes.

- **Intermittent Connection:**

  - Ensure the adapter is not loose in the USB port.
  - Check for updated drivers on the manufacturer's website if available.
  - Move closer to the Wi-Fi router to improve signal strength.

If you continue to experience issues, please refer to the Warranty and Support section for assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	N21CA
Brand	Nineplus
Hardware Interface	USB 3.0
Wireless Standard	802.11AX (Wi-Fi 6), 802.11ac/b/g/n
Data Link Protocol	IEEE 802.11ac, IEEE 802.11AX
Data Transfer Rate	Up to 1800 Mbps (1201Mbps on 5GHz, 574Mbps on 2.4GHz)

Frequency Bands	5GHz, 2.4GHz
Compatible Operating System	Windows 11, Windows 10
Compatible Devices	Desktop, Laptop, PC, Computer
Product Dimensions	1.89"L x 0.83"W x 0.35"H (4.8 x 2.1 x 0.9 cm)
Item Weight	0.176 ounces (5 Grams)
Color	Black

8. WARRANTY AND SUPPORT

Nineplus provides a **2-Year Service** for this USB WiFi adapter. If you encounter any problems with your device within this period, we offer new product replacements.

Please contact us directly via email for any issues or support inquiries. We aim to respond to your queries within 24 hours and will assist with replacements within 2 days if necessary.

Contact Email: [Please refer to your product packaging or purchase documentation for the specific support email address.]

Related Documents - N21CA

	[Nineplus AX1800 USB WiFi Adapter Quick Installation Guide](#) Comprehensive guide for installing and setting up the Nineplus AX1800 USB WiFi Adapter, including hardware and driver installation, network connection, troubleshooting, and support.
	[Nineplus AX1800 USB WiFi Adapter Quick Installation Guide](#) Comprehensive guide for installing and setting up the Nineplus AX1800 USB WiFi Adapter, including hardware and driver installation, network connection, troubleshooting, and support.