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NEWFAST NF-U351

NEWFAST NF-U351 AX3000 USB 3.0 WiFi 6 Adapter User Manual

Model: NF-U351

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NEWFAST NF-U351 AX3000 USB 3.0 WiFi 6 Adapter. This device is designed to upgrade your desktop PC or laptop to the latest WiFi 6 (802.11ax) standard, offering enhanced speed, efficiency, and security for your wireless network connection.



Image 1.1: The NEWFAST NF-U351 AX3000 USB 3.0 WiFi 6 Adapter, a compact black device with a USB 3.0 connector.

2. SAFETY INFORMATION

- Keep the device away from water, fire, high temperatures, and corrosive environments.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.
- Ensure proper ventilation around the device during operation to prevent overheating.
- Use the device within its specified operating temperature and humidity ranges.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x NEWFAST NF-U351 AX3000 USB WiFi 6 Adapter
- 1 x User Manual (this document)

4. SETUP AND INSTALLATION

The NF-U351 adapter features a pre-loaded driver for simplified installation. No CD-ROM is required.

4.1 System Requirements

- Operating System: Windows 10 (32/64bit) or Windows 11
- Available USB 3.0 port (backward compatible with USB 2.0, but USB 3.0 is recommended for optimal performance)



Image 4.1: The adapter is compatible with Windows 10 and Windows 11 operating systems, shown with a laptop and connected devices.

4.2 Installation Steps

1. **Plug in the Adapter:** Insert the NEWFAST NF-U351 WiFi 6 adapter into an available USB 3.0 port on your desktop PC or laptop. While compatible with USB 2.0, using a USB 3.0 port ensures maximum data transfer speeds.
2. **Launch Setup Wizard:** Upon insertion, the system should automatically detect the device and launch an auto-populated setup wizard. If the wizard does not appear automatically, navigate to 'This PC' or 'My Computer', locate the newly detected USB drive (often labeled 'WiFi6' or similar), and double-click the setup executable (e.g., 'Setup.exe' or 'Install.exe').
3. **Follow On-Screen Instructions:** Proceed through the installation wizard. This process typically involves accepting the license agreement and clicking 'Next' or 'Install' until completion.

4. **Connect to Network:** Once the driver installation is complete, the adapter is ready for use. You can now connect to your desired WiFi network through your operating system's network settings.



Image 4.2: Visual representation of the three-step setup process: plug into PC, install pre-loaded driver, and connect to WiFi.

5. OPERATING THE DEVICE

The NF-U351 adapter supports two primary modes of operation: WiFi Client Mode (receiving signal) and AP Mode (creating a hotspot).

5.1 WiFi Client Mode (Receive Signal)

In this mode, the adapter functions as a standard wireless network card, allowing your computer to connect to an existing WiFi network (router).

- Ensure the adapter is properly installed as per Section 4.
- Open your computer's network settings (e.g., WiFi icon in the taskbar for Windows).
- Select your desired WiFi network from the list of available networks.
- Enter the network password (if required) and click 'Connect'.
- The adapter supports dual-band operation (2.4GHz and 5GHz) for optimal performance. Connect to the 5GHz band for higher speeds and lower latency, or the 2.4GHz band for better range.

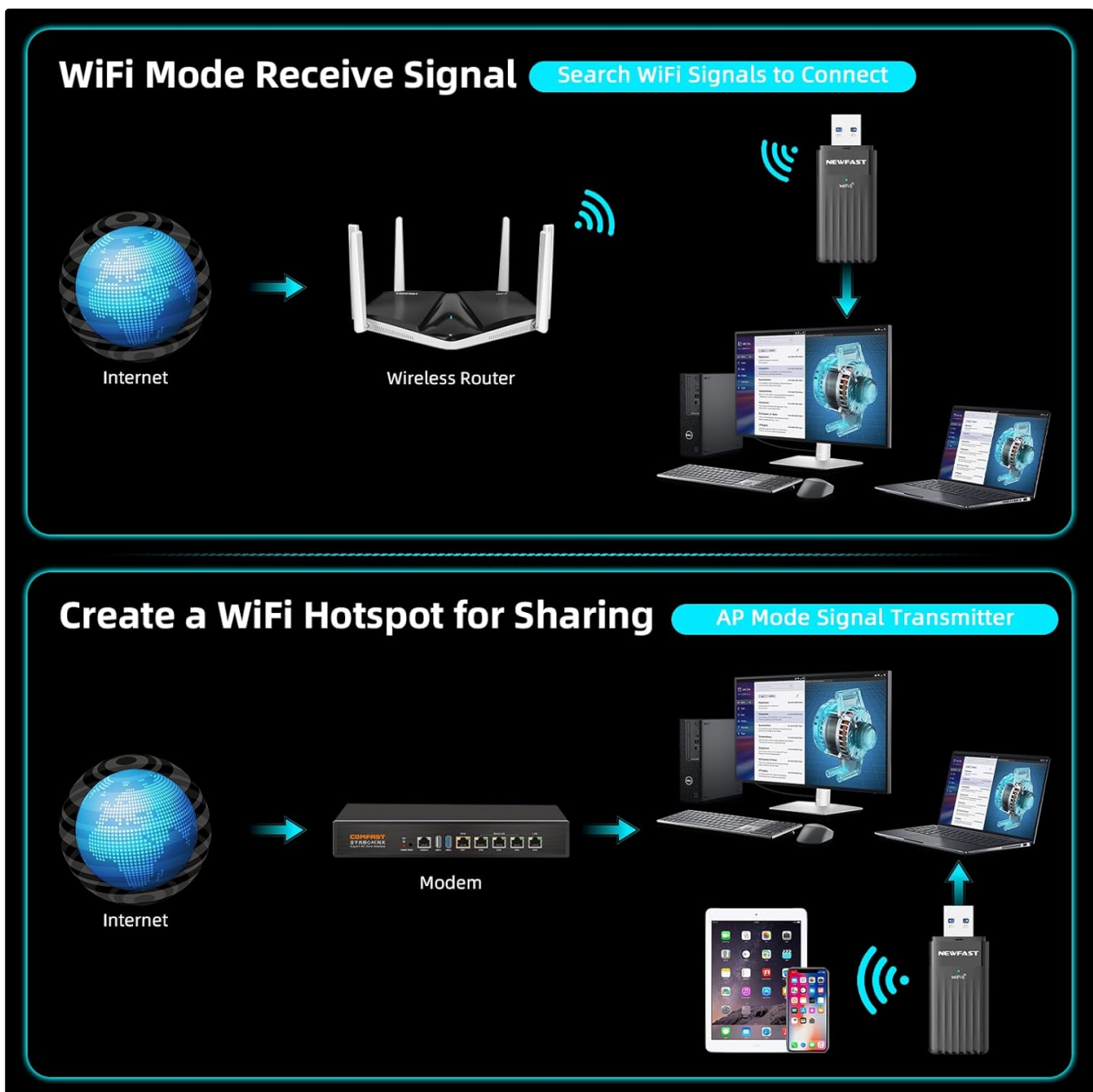


Image 5.1: Diagram illustrating WiFi Mode (receiving signal from a wireless router) and AP Mode (creating a WiFi hotspot for other devices).

5.2 AP Mode (Create a WiFi Hotspot)

The NF-U351 can transform your computer into a wireless hotspot, allowing other devices (smartphones, tablets, other laptops) to connect to your computer's internet connection.

- Ensure your computer has an active internet connection (e.g., via Ethernet or another WiFi adapter).
- Access your operating system's Mobile Hotspot settings (e.g., in Windows Settings > Network & Internet > Mobile hotspot).
- Enable the Mobile Hotspot feature.
- Configure the network name (SSID) and password for your new hotspot.
- Select the NF-U351 adapter as the connection to share.
- Other devices can now search for and connect to your computer's hotspot.

5.3 Advanced Features

- **WiFi 6 (802.11ax):** Utilizes the latest wireless standard for higher speeds, lower latency, and increased network capacity.

- **Dual Band (2.4GHz/5GHz):** Supports both frequency bands for flexible connectivity. The 5GHz band offers faster speeds for demanding tasks like 4K streaming and online gaming, while the 2.4GHz band provides wider coverage.
- **MU-MIMO & OFDMA:** These technologies enhance network efficiency by allowing the adapter to communicate with multiple devices simultaneously and manage data streams more effectively, reducing lag in busy networks.
- **WPA3 Security:** Provides enhanced encryption and protection against cyber threats, ensuring a more secure wireless connection.



Image 5.2: Visual explanation of OFDMA (Orthogonal Frequency-Division Multiple Access) and MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technologies, which improve network efficiency and reduce congestion.



Image 5.3: Diagram illustrating the robust protection offered by WPA3 encryption, safeguarding against various network threats.

6. MAINTENANCE

The NEWFAST NF-U351 adapter is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the adapter. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the adapter in a cool, dry place, away from direct sunlight and extreme temperatures. The included protective cover helps prevent scratches and dust.
- **Firmware/Driver Updates:** Periodically check the NEWFAST official website for any available driver or

firmware updates to ensure optimal performance and compatibility.

Compact & Portable

Easy Setup, Easy Use
No need CD driver, Simple and convenient

1: WiFi6 Connection and Find Driver.

2: Driver Installation

3: Connect wifi, access the internet

The advertisement features a black NEWFAST NF-U351 WiFi6 adapter. A circular inset shows the adapter's dimensions: 63mm in height, 25mm in width, and 9mm in thickness. The main image shows the adapter plugged into a USB port on a black device. A diagram illustrates the setup process: 1. WiFi6 Connection and Find Driver (represented by a blue USB icon and a computer monitor), 2. Driver Installation (represented by a Windows Setup window titled 'Setup - WiFiAutoInstall'), and 3. Connect wifi, access the internet (represented by a computer monitor with a WiFi signal icon and a smartphone).

Image 6.1: The compact design of the NF-U351 adapter, highlighting its portability and the protective cover for the USB connector.

7. TROUBLESHOOTING

If you encounter issues with your NEWFAST NF-U351 adapter, please refer to the following common solutions:

- **Adapter Not Detected:**

- Ensure the adapter is fully inserted into a USB port.
- Try a different USB port, preferably a USB 3.0 port.
- Restart your computer.
- Check Device Manager in Windows to see if the device is listed (it might appear under 'Network adapters' or 'Other devices'). If there's an error, try reinstalling the driver.

- **Cannot Connect to WiFi Network:**

- Verify that your WiFi network is active and broadcasting.

- Double-check the WiFi password.
 - Ensure your router's firmware is up to date.
 - Try connecting to a different WiFi network to isolate the issue.
 - Restart your router and modem.
- **Slow Connection Speed:**
 - Ensure you are connected to the 5GHz band of your router if available, as it offers higher speeds.
 - Minimize physical obstructions (walls, large appliances) between the adapter and your router.
 - Ensure your computer is connected to a USB 3.0 port.
 - Check for interference from other electronic devices.
 - Update the adapter's driver to the latest version.
 - **AP Mode Not Working:**
 - Verify that your computer has an active internet connection.
 - Ensure the Mobile Hotspot feature is correctly configured in your operating system settings.
 - Check if other devices can detect the hotspot.

8. SPECIFICATIONS

Feature	Description
Model	NF-U351
Wireless Standard	IEEE 802.11ax (WiFi 6)
Data Transfer Rate	Up to 3000 Mbps (574 Mbps on 2.4GHz, 2402 Mbps on 5GHz)
Frequency Bands	2.4 GHz, 5 GHz (Dual Band)
Hardware Interface	USB 3.0 (backward compatible with USB 2.0)
Security Protocols	WPA3
Advanced Technologies	MU-MIMO, OFDMA, Beamforming
Compatible Devices	Desktop, Laptop
Operating System Support	Windows 10 (32/64bit), Windows 11
Product Dimensions	2.47 x 0.96 x 0.35 inches (63 x 25 x 9 mm)
Item Weight	0.63 ounces (1.13 ounces with packaging)



Image 8.1: An overview of the key features and specifications of the AX3000 USB 3.0 WiFi 6 Adapter, including WiFi 6, AX3000 speed, dual-band, MU-MIMO, OFDMA, WPA3, and USB 3.0.

9. WARRANTY INFORMATION

NEWFAST products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official NEWFAST website.

10. SUPPORT

For technical assistance, troubleshooting, or general inquiries regarding your NEWFAST NF-U351 AX3000 USB 3.0 WiFi 6 Adapter, please contact NEWFAST customer support.

- **Online Support:** Visit the official NEWFAST website for FAQs, driver downloads, and support resources.

- **Email Support:** Refer to the contact information provided on the NEWFAST website or your product packaging.

Related Documents - NF-U351

 <p>NF-RE523 NEWFAST 无线中继器快速安装指南 (中文简体-快速版) 规格: 75x120mm 重量: 15g (含包装) 注意: 请务必仔细阅读本指南, 以免损坏设备</p>	<p>NF-RE523 NEWFAST Quick Installation Guide</p> <p>This document provides a quick installation guide for the NEWFAST NF-RE523 WiFi Extender/Repeater, covering setup, indicators, Q&A, and maintenance regulations in multiple languages.</p>
 <p>NEWFAST Quick Installation Guide</p>   	<p>NEWFAST WiFi Extender M0304673 Quick Installation Guide</p> <p>Step-by-step guide to installing and configuring the NEWFAST M0304673 WiFi Extender/Repeater for extended wireless network coverage. Includes setup instructions, troubleshooting, and maintenance information.</p>
	<p>NEWFAST Wireless Adapter Quick Installation Guide</p> <p>A quick installation guide for the NEWFAST Wireless Adapter, providing step-by-step instructions for setup and maintenance regulations.</p>
	<p>Quick Installation Guide for WiFi Extender/Repeater NF-RE513 V2</p> <p>A concise guide to installing and setting up the NF-RE513 V2 WiFi Extender/Repeater, including WPS installation and troubleshooting common issues.</p>
 <p>NEWFAST Quick Installation Guide</p>	<p>NEWFAST Wireless Adapter M0401082 Quick Installation Guide</p> <p>Quick installation guide for the NEWFAST Wireless Adapter M0401082 (Model M0401082, Version 5.0). Covers hardware installation, driver setup, network connection, and safety information.</p>
 <p>NEWFAST Outdoor AP Quick Installation Guide</p>	<p>NEWFAST NF-A882 Outdoor AP Quick Installation Guide</p> <p>A quick installation guide for the NEWFAST NF-A882 Outdoor WiFi Extender/Access Point, covering product installation, device connection, configuration modes (AP, Bridge, Router, Repeater), and troubleshooting.</p>

