NEWFAST U352 AX1800

NEWFAST U352 AX1800 USB WiFi 6 Adapter User Manual

Model: U352 AX1800

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NEWFAST U352 AX1800 USB WiFi 6 Adapter. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize its performance. This adapter is designed to provide high-speed wireless connectivity for your desktop or laptop computer running Windows 10 or Windows 11.

2. SAFETY INFORMATION

- Keep the device away from water, fire, high humidity, or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- Use only with compatible USB ports (USB 3.0 recommended for optimal performance).
- Ensure proper ventilation around the device during operation.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x NEWFAST AX1800 USB WiFi 6 Adapter
- 1x User Manual

4. PRODUCT OVERVIEW

The NEWFAST U352 AX1800 USB WiFi 6 Adapter is designed to provide a fast and stable wireless connection for your computer. It features dual-band support, high-gain antennas, and advanced WiFi 6 technologies like MU-MIMO and OFDMA.

Figure 4.1: The NEWFAST U352 AX1800 USB WiFi 6 Adapter with its dual adjustable antennas.
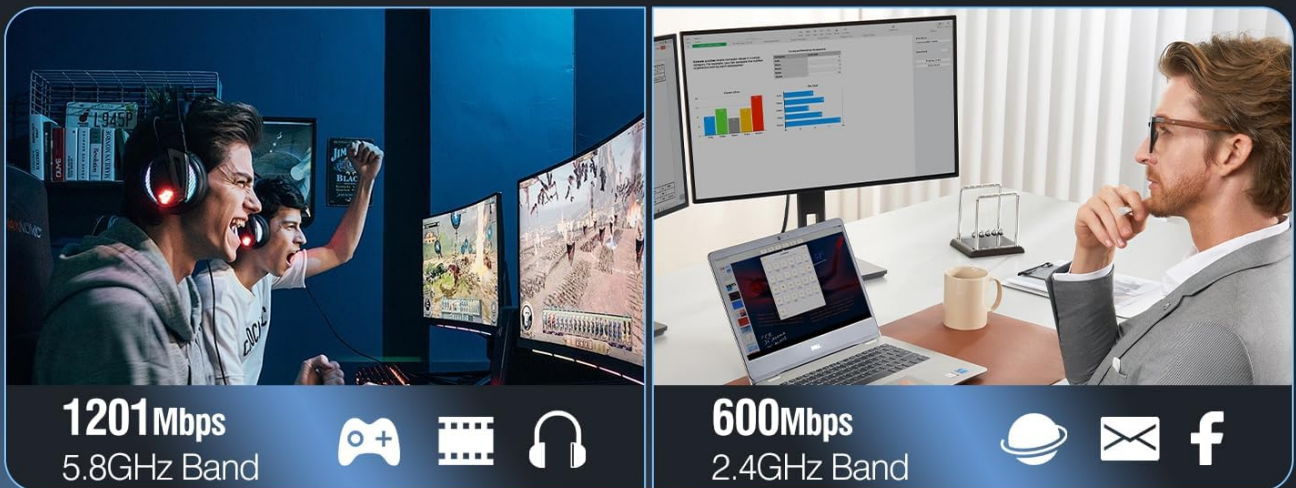
Key Features:

- **WiFi 6 (802.11ax) Technology:** Offers faster speeds, lower latency, and increased capacity compared to previous Wi-Fi standards.
- **AX1800 Dual Band:** Provides speeds up to 1201 Mbps on the 5GHz band and 574 Mbps on the 2.4GHz band.
- **USB 3.0 Interface:** Ensures high-speed data transfer, up to 10 times faster than USB 2.0, to fully utilize the adapter's wireless capabilities.
- **MU-MIMO & OFDMA:** Enhances network efficiency and reduces latency, especially in environments with multiple devices.
- **WPA3 Encryption:** Supports the latest security protocol for enhanced network protection.
- **Adjustable High-Gain Antennas:** Improves signal reception and transmission for a wider and more stable connection.
- **Driver-Free Installation:** Automatic device recognition and configuration for Windows 10/11.
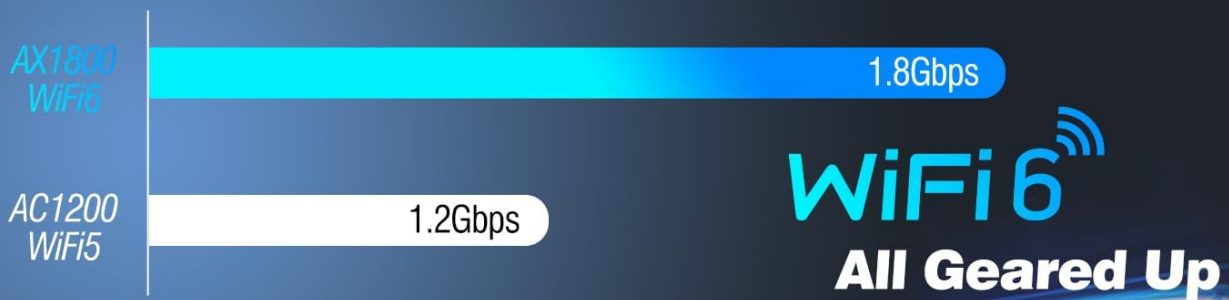
Figure 4.2: Illustration of WiFi 6 speeds (1201 Mbps on 5GHz, 600 Mbps on 2.4GHz) and USB 3.0 interface.

The adapter leverages WiFi 6 technology to deliver combined speeds of up to 1800 Mbps (1.8 Gbps). The USB 3.0 interface ensures that the data transfer between the adapter and your computer does not bottleneck the wireless speed.

Figure 4.3: Comparison of AX1800 WiFi 6 speed with AC1200 WiFi 5, highlighting OFDMA and MU-MIMO benefits.

With OFDMA and MU-MIMO technologies, the adapter efficiently handles multiple devices simultaneously, reducing network congestion and improving overall performance for activities like gaming, streaming, and video calls.
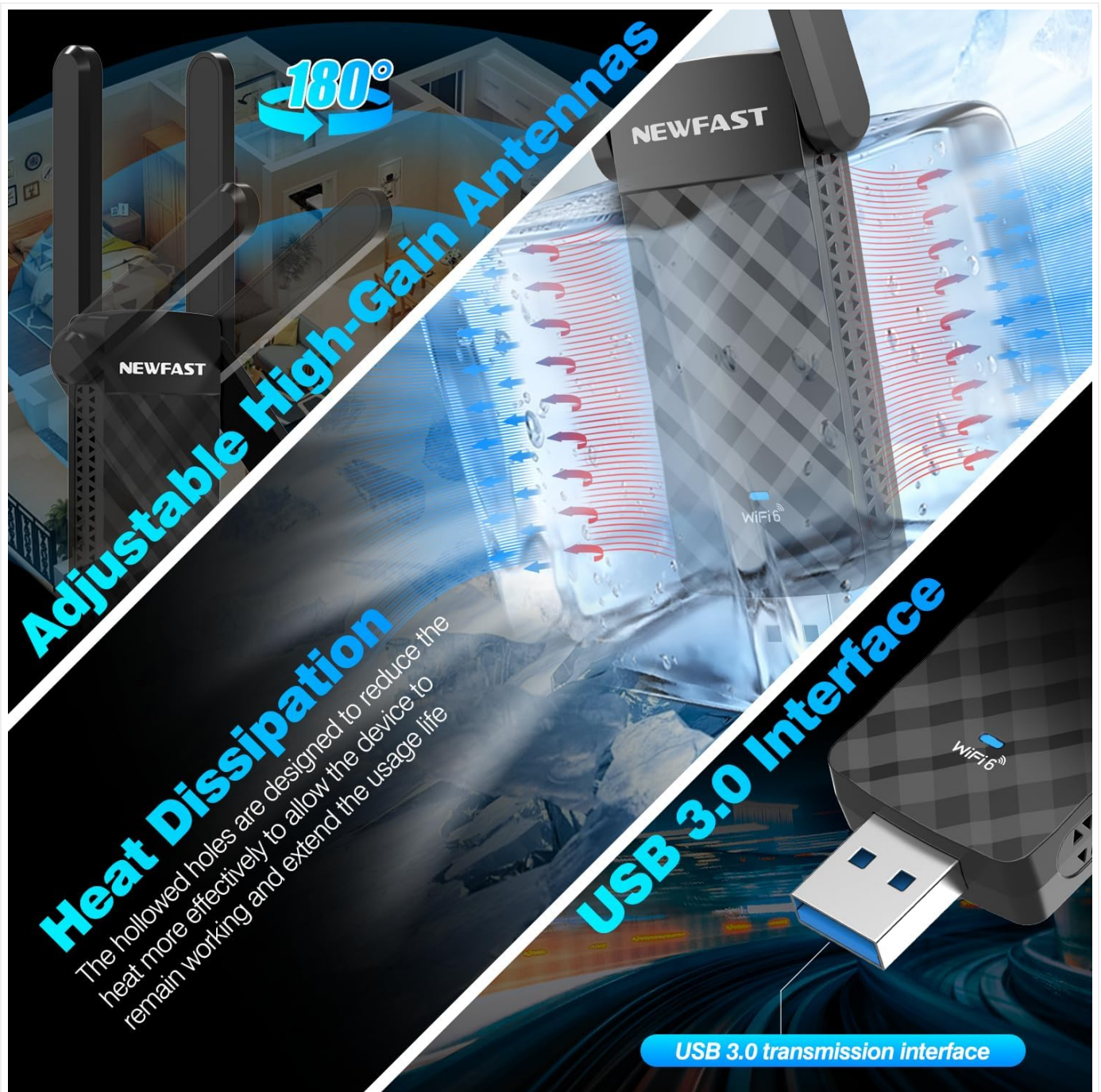
Figure 4.4: Details on the adjustable antennas for optimal signal, heat dissipation design, and the USB 3.0 interface.

The dual adjustable antennas allow for flexible positioning to optimize signal reception. The adapter's design also incorporates heat dissipation features to ensure stable and long-term operation.

Figure 4.5: Visual representation of key AX1800 WiFi 6 features including 1024 QAM, OFDMA, MU-MIMO, WPA3, and dual-band support.

This image summarizes the advanced features of the AX1800 WiFi 6 adapter, including 1024-QAM for higher data rates, OFDMA and MU-MIMO for efficient multi-device communication, WPA3 for enhanced security, and support for both 2.4GHz and 5GHz bands.

5. SETUP INSTRUCTIONS

The NEWFAST U352 AX1800 USB WiFi 6 Adapter offers a simple, driver-free installation process for Windows 10 and Windows 11.

System Requirements:

- Operating System: Windows 10 (32/64-bit) or Windows 11 (64-bit)
- Available USB Port (USB 3.0 recommended)

Installation Steps:

1. **Plug in the USB Adapter:** Insert the NEWFAST USB WiFi 6 Adapter into an available USB port on your desktop or laptop computer. For optimal performance, use a USB 3.0 port.

2. **Automatic Driver Installation:** Windows 10/11 will automatically detect the device and begin installing the necessary drivers. A notification may appear indicating the installation progress.

3. **Connect to WiFi:** Once the driver installation is complete (this may take a few moments), you can connect to your desired WiFi network through the standard Windows network settings.

Figure 5.1: Visual guide to the three-step installation process: Plug in, install drivers automatically, and connect to WiFi.

This image illustrates the straightforward installation process: 1. Plug the USB adapter into your computer. 2. Allow the system to automatically install the drivers. 3. Connect to your WiFi network.

6. OPERATING INSTRUCTIONS

Connecting to a Wireless Network:

1. After successful driver installation, click on the WiFi icon in your Windows taskbar (usually in the bottom-right corner).
2. A list of available wireless networks will appear. Select your desired network.
3. Click "Connect". If the network is secured, you will be prompted to enter the network security key (password).
4. Once connected, the WiFi icon will indicate a successful connection.

Soft AP Mode (WiFi Router Function):

The adapter supports Soft AP mode, allowing your computer to function as a wireless hotspot, sharing its internet connection with other devices like smartphones or tablets.

1. Ensure your computer has an active internet connection (e.g., via Ethernet).
2. Open Windows Settings > Network & Internet > Mobile hotspot.
3. Toggle "Mobile hotspot" to "On".
4. You can customize the network name (SSID) and password under "Edit".
5. Other devices can now connect to this hotspot using the provided credentials.

Figure 6.1: Illustration showing the adapter's dual functionality: receiving WiFi (WiFi Card Function) and sending WiFi (WiFi Router Function via Soft AP Mode).

This image demonstrates how the adapter can both receive a WiFi signal to connect your computer to the internet and create a WiFi hotspot (Soft AP mode) to share your computer's internet connection with other wireless devices.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the adapter. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the adapter in a cool, dry place.
- **Firmware Updates:** Periodically check the NEWFAST official website for any available firmware or driver updates to ensure optimal performance and security.
- **Physical Protection:** Avoid dropping the adapter or subjecting it to strong impacts.

8. TROUBLESHOOTING

Common Issues and Solutions:

- **No WiFi Networks Detected:**

    - Ensure the adapter is securely plugged into a USB port.
    - Verify that WiFi is enabled in your computer's settings.
    - Restart your computer.
    - Check if the adapter's drivers are correctly installed in Device Manager.

- **Slow Connection Speed:**

    - Ensure you are connected to a WiFi 6 compatible router.
    - Try connecting to the 5GHz band if available, as it generally offers higher speeds.
    - Move closer to your wireless router to improve signal strength.
    - Ensure the adapter is plugged into a USB 3.0 port.

- Check for interference from other electronic devices.

- **Frequent Disconnections:**

  - Update your router's firmware and the adapter's drivers.
  - Adjust the position of the adapter's antennas for better signal.
  - Ensure there are no physical obstructions between the adapter and the router.
  - Try a different USB port.

- **Driver Installation Failure:**

  - Ensure your operating system is Windows 10 or Windows 11.
  - Temporarily disable antivirus software during installation if it interferes.
  - Try a different USB port.
  - Manually download drivers from the NEWFAST support website if automatic installation fails.

9. SPECIFICATIONS

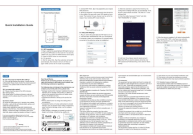| Feature	Detail
Model	U352 AX1800
Wireless Standard	IEEE 802.11ax (WiFi 6)
Data Transfer Rate	Up to 1800 Mbps (1201 Mbps at 5GHz, 574 Mbps at 2.4GHz)
Frequency Bands	2.4 GHz, 5 GHz
Interface	USB 3.0 (backward compatible with USB 2.0, USB 1.1)
Antennas	Dual High-Gain Adjustable Antennas
Wireless Security	WPA3, WPA2, WPA
Supported Technologies	MU-MIMO, OFDMA, 1024-QAM
Compatible Operating Systems	Windows 11, Windows 10
Product Dimensions	3.08 x 0.41 x 1.45 inches
Item Weight	1.6 ounces

10. WARRANTY AND SUPPORT

NEWFAST products are designed for reliability and performance. For warranty information and technical support, please refer to the warranty card included with your product or visit the official NEWFAST website. Our support team is available to assist you with any questions or issues you may encounter.

Official Website: NEWFAST Store on Amazon (Please check the product packaging or official website for direct support contact information.)

Related Documents - U352 AX1800

	NEWFAST Wireless Adapter Quick Installation Guide A quick installation guide for the NEWFAST Wireless Adapter, providing step-by-step instructions for setup and maintenance regulations.
	NEWFAST Wireless Adapter M0401082 Quick Installation Guide Quick installation guide for the NEWFAST Wireless Adapter M0401082 (Model M0401082, Version 5.0). Covers hardware installation, driver setup, network connection, and safety information.
	NF-RE523 NEWFAST Quick Installation Guide 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.
	NEWFAST WiFi Extender M0304673 Quick Installation Guide 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.
	Quick Installation Guide for WiFi Extender/Repeater NF-RE513 V2 A concise guide to installing and setting up the NF-RE513 V2 WiFi Extender/Repeater, including WPS installation and troubleshooting common issues.

[NEWFAST Outdoor AP Quick Installation Guide - Setup and Configuration](#)

Comprehensive guide to installing and configuring the NEWFAST Outdoor AP (Access Point) and WiFi Extender, covering setup modes, network settings, and troubleshooting.