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BrosTrend 1800Mbps Linux USB WiFi 6 Adapter

BrosTrend AX1800 USB WiFi 6 Adapter User Manual

Model: 1800Mbps Linux USB WiFi 6 Adapter

Brand: BrosTrend

1. INTRODUCTION

The BrosTrend AX1800 USB WiFi 6 Adapter is designed to provide blazing-fast WiFi 6 connectivity to your Linux and Windows devices. With dual-band capabilities, it offers speeds up to 1.8Gbps (1201Mbps on 5GHz and 574Mbps on 2.4GHz), significantly improving wireless performance for streaming, gaming, and downloading. This adapter features a cutting-edge WiFi 6 chip (Realtek RTL8832BU) and supports WPA3 encryption for enhanced security.



Image 1.1: The BrosTrend AX1800 USB WiFi 6 Adapter, a compact white USB dongle with a blue LED indicator.

2. WHAT'S IN THE Box

- 1 x 1800Mbps Linux WiFi 6 USB Adapter
- 1 x Instruction Script for Linux OS

3. SPECIFICATIONS

Feature	Detail
Product Dimensions	3.6 x 1.2 x 0.5 inches (9.14 x 3.05 x 1.27 cm)
Item Weight	0.64 ounces (18.14 g)
Hardware Interface	USB 3.0
Data Link Protocol	IEEE 802.11ax/ac/n/a (5GHz), IEEE 802.11ax/n/g/b (2.4GHz)
Data Transfer Rate	Up to 1800 Megabits Per Second (1201Mbps on 5GHz, 574Mbps on 2.4GHz)
Compatible OS Family	Linux, Windows
Chipset Model	Realtek RTL8832BU
Encryption Support	WPA3

4. SETUP GUIDE

4.1 Pre-installation Notes

- An active internet connection is required for initial driver download and installation. You may need to use a wired (LAN) connection or mobile phone USB tethering.
- It is crucial to install the Linux driver **before** plugging in your WiFi adapter.
- We recommend updating and rebooting your system before running the installer to avoid common issues like mismatched kernel headers or old HTTP certificates.

4.2 Driver Installation (Linux)

For Linux operating systems, driver installation is required. Please follow the detailed steps provided in the 'Instruction Script for Linux OS' included in your product package. Generally, the process involves:

1. After your system has booted, ensure you have an internet connection.
2. Do NOT insert the WiFi adapter yet.
3. Locate and execute the driver installation script. This typically involves downloading the driver from the

BrosTrend website (search for "BrosTrend WiFi 6 Linux" to find the official support page).

4. Follow the on-screen prompts to complete the installation. You may need to use `sudo` commands.
5. Once the driver is successfully installed, you can then insert the BrosTrend AX1800 USB WiFi 6 Adapter into an available USB 3.0 port.
6. The adapter's LED will illuminate once the driver is recognized and it connects to a network.

Your browser does not support the video tag.

Video 4.2.1: An official BrosTrend video demonstrating the installation process and features of the 1800Mbps WiFi 6 USB Linux Adapter.

4.3 Compatible Operating Systems

This adapter offers broad compatibility with various Linux distributions and Windows versions:

- **Linux Kernels:** Up to 6.8
- **Ubuntu:** 24.04~16.04 (all flavors including Kubuntu, Lubuntu, Xubuntu, Mate, Zorin, elementary OS, PureOS, Bodhi, Kylin, etc.)
- **Raspberry Pi OS:** 12~8
- **Debian:** 12~8
- **Linux Mint:** 21~18
- **LMDE:** 6~1
- **Other Supported:** MX Linux, Linux Lite, Q4OS, Parrot OS, Devuan, Peppermint OS
- **Windows:** 11/10



Image 4.3.1: Visual representation of various Linux distribution logos indicating compatibility with the adapter.

4.4 Hardware Supported

- x86_64/x86_32 (PCs, Laptops)
- aarch64/armhf (Raspberry Pi 2+ and newer models)

4.5 Currently Unsupported Distributions

Please note that the following distributions are currently NOT compatible with this adapter:

- Arch Linux
- Fedora Workstation
- Kali Linux
- deepin
- Pop! OS
- antiX
- Manjaro
- RHEL
- CentOS
- openSUSE Leap
- OpenWrt
- Guix
- Puppy
- Tails
- Endless OS
- LibreELEC
- OSMC
- SteamOS

5. OPERATING THE ADAPTER

Once the drivers are successfully installed and the adapter is plugged into a USB 3.0 port, your system should recognize it as a network device. You can then connect to your desired WiFi network through your operating system's network settings.

5.1 Key Features

- **Blazing-fast WiFi 6:** Experience significantly faster speeds and lower latency compared to older WiFi standards.
- **Dual-Band Connectivity:** Utilize both 5GHz (for higher speeds, less interference) and 2.4GHz (for wider coverage, better penetration) bands.
- **Improved Performance:** The cutting-edge WiFi 6 chip enhances capacity in busy network environments.
- **WPA3 Encryption:** Benefit from the latest security protocol for a more secure wireless connection.

Faster Dual Band Connection

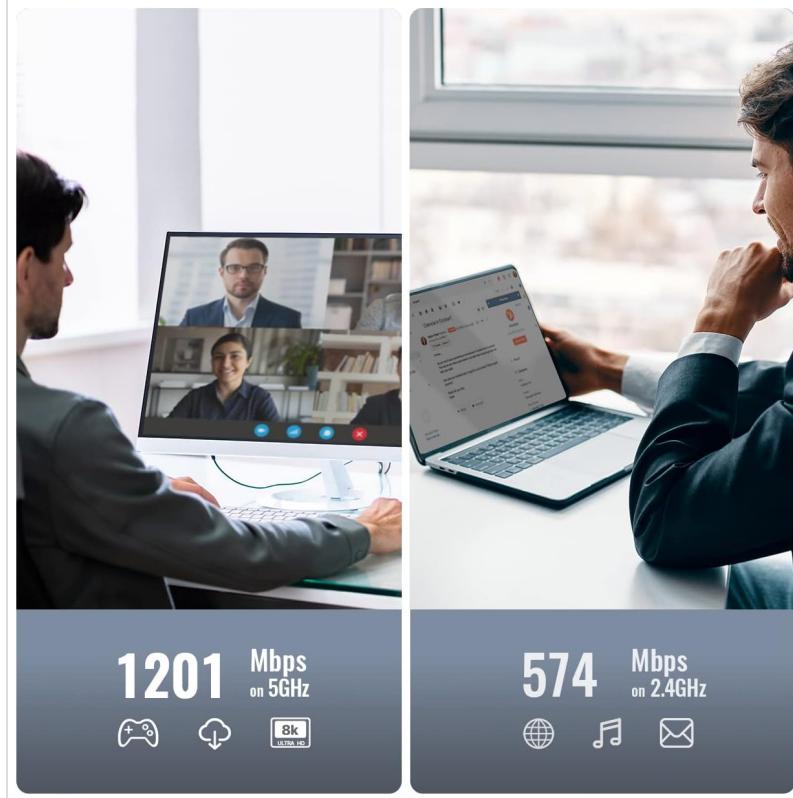


Image 5.1.1: Illustration showing the dual-band capabilities of the adapter, highlighting 1201Mbps on 5GHz and 574Mbps on 2.4GHz.

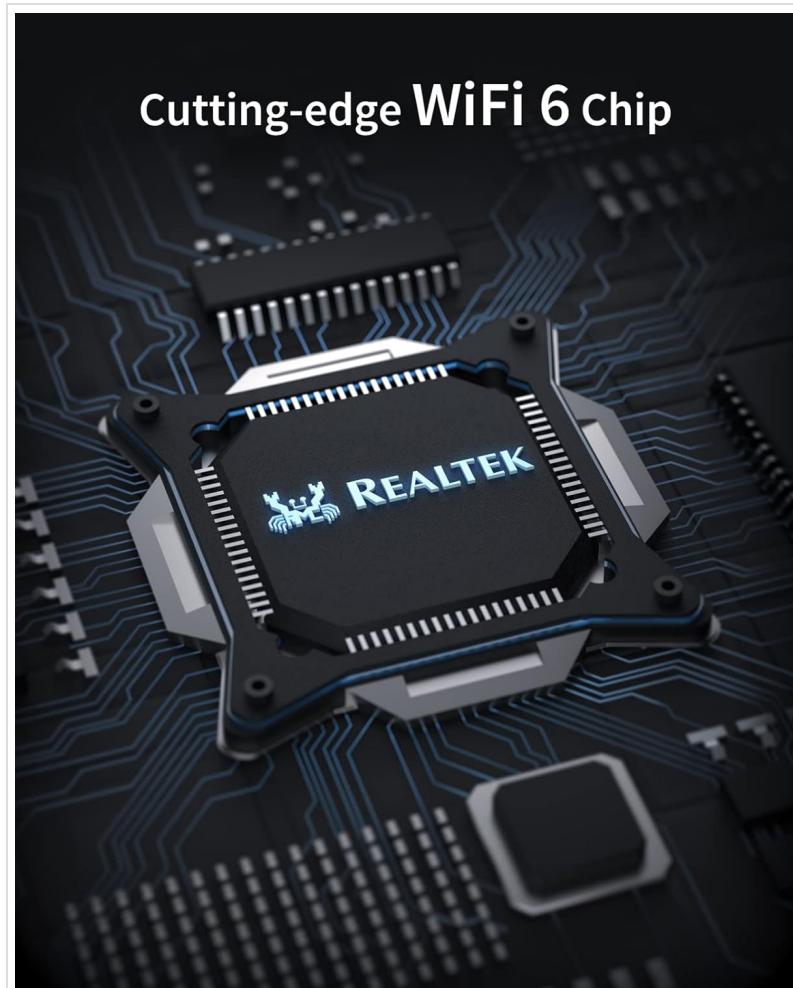


Image 5.1.2: Close-up view of the Realtek WiFi 6 chip, emphasizing the advanced technology within the adapter.

5.2 LED Indicator

The adapter features a blue LED indicator that provides status information:

- **Off:** The adapter is not powered or drivers are not installed/recognized.
- **Solid Blue:** The adapter is powered on and connected to a network.
- **Blinking Blue:** Indicates active data transmission (network activity).

6. MAINTENANCE

- **Keep Drivers Updated:** Periodically check the BrosTrend official website for updated drivers, especially after major operating system updates or kernel upgrades.
- **Physical Care:** Handle the adapter with care. Avoid exposing it to extreme temperatures, moisture, or direct sunlight.
- **Proper Removal:** Always safely eject the USB device from your operating system before physically removing it to prevent data corruption or damage.
- **Ventilation:** Ensure the adapter is not obstructed when plugged in to allow for proper airflow and prevent overheating.

7. TROUBLESHOOTING

7.1 Adapter Not Detected / LED Off

- **Check Driver Installation:** Ensure the driver has been correctly installed as per Section 4.2. The LED will not light up until the driver is installed and recognized.
- **Internet Connection for Driver:** Remember that an internet connection (wired or tethered) is needed for the initial driver download.
- **USB Port:** Try plugging the adapter into a different USB 3.0 port on your computer. Ensure the port is functional.
- **Reboot System:** A system reboot after driver installation is often necessary for changes to take effect.

7.2 Slow Connection Speed

- **USB 3.0 Port:** Ensure the adapter is plugged into a USB 3.0 port (usually blue inside) for optimal performance. USB 2.0 ports will limit speed.
- **Router Distance/Obstacles:** Move closer to your WiFi router or remove physical obstructions (walls, large furniture) that might interfere with the signal.
- **Router Settings:** Verify your router supports WiFi 6 (802.11ax) and is configured for dual-band operation.
- **Driver Updates:** Check for the latest drivers on the BrosTrend website. Some users reported initial slow speeds on Linux due to driver issues that were resolved with updates.

7.3 Incompatible Operating System

- Refer to Section 4.5 for a list of currently unsupported Linux distributions. If your OS is on this list, the adapter may not function correctly.
- For unsupported architectures or kernels, the driver compilation might fail. Ensure your system meets the requirements.

7.4 General Issues

- **Contact Support:** If you encounter persistent issues, please do not hesitate to contact BrosTrend customer support for assistance.

8. WARRANTY AND SUPPORT

The BrosTrend AX1800 USB WiFi 6 Adapter is verified by Transparency, ensuring authenticity. For specific warranty details and technical support, please refer to the documentation included with your product or visit the official BrosTrend website. BrosTrend is committed to providing reliable products and excellent customer service.

For assistance, please visit the BrosTrend support page or contact their customer service team directly.