ASUS USB-AX55 Nano

ASUS AX1800 Dual Band WiFi 6 USB Adapter (USB-AX55 Nano) User Manual

Model: USB-AX55 Nano

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your ASUS AX1800 Dual Band WiFi 6 USB Adapter (USB-AX55 Nano). This device is designed to upgrade your PC or laptop's networking capabilities to the WiFi 6 (802.11ax) standard, offering enhanced speed and efficiency for a growing number of connected devices.

An angled view of the ASUS USB-AX55 Nano WiFi 6 adapter, showcasing its compact black casing with the ASUS logo and the silver USB connector.

WHAT'S IN THE BOX

Please verify that all items are present in your product package:

- USB-AX55 Nano Dual-band Wireless AX1800 Adapter
- Quick Start Guide
- Warranty Card

SETUP

System Requirements

- Operating System: Windows 10 or later, Linux
- Available USB port (USB 3.0 recommended for optimal performance)

Installation Steps

1. **Insert the Adapter:** Carefully plug the ASUS USB-AX55 Nano adapter into an available USB port on your desktop or laptop. For best performance, use a USB 3.0 port, often identifiable by its blue internal plastic color.

2. **Driver Installation:**
   - **Windows:** In most cases, Windows 10 will automatically detect the device and install a generic driver. For optimal performance and access to all features, it is recommended to download and install the latest official drivers from the ASUS support website.
   - **Linux:** Specific driver installation steps may vary depending on your Linux distribution. Refer to the ASUS support website or your distribution's documentation for guidance.

3. **Verify Installation:** After driver installation, check your computer's Device Manager (Windows) or network settings (Linux) to ensure the adapter is recognized and functioning correctly.

Compact sized USB WiFi 6 Adapter

The ASUS USB-AX55 Nano WiFi 6 adapter is shown plugged into a laptop, highlighting its compact size with dimensions of 25.5mm length, 16mm width, and 9mm height. This design ensures it does not obstruct adjacent USB ports.

OPERATING

Connecting to a Wireless Network

1. Ensure the adapter is securely plugged into your computer.

2. Access your operating system's network settings (e.g., WiFi icon in the system tray for Windows).

3. Select your desired WiFi network from the list of available networks.

4. Enter the network password (if required) and click 'Connect'.

5. Once connected, your computer will utilize the ASUS USB-AX55 Nano for wireless internet access.

Key Features and Benefits

- **WiFi 6 (802.11ax) Standard:** Provides efficient connectivity for a high number of devices, improving overall network performance.
- **Dual Band Operation:** Supports both 2.4GHz and 5GHz frequency bands. The 5GHz band offers faster speeds (up to 2.4Gbps) and less interference, ideal for streaming and gaming, while 2.4GHz provides wider coverage.
- **WPA3 Network Security:** Enhances WiFi security with more robust authentication and improved encryption, protecting your network from external threats.
- **OFDMA and MU-MIMO:** These technologies enable ultra high-efficiency, ensuring more stable and faster data transmission, especially in environments with many connected devices.

This image illustrates the enhanced WPA3 network security feature of the adapter, depicted by a laptop screen showing a security shield icon in a collaborative office setting. WPA3 provides robust authentication and improved encryption for secure wireless connections.

MAINTENANCE

- **Driver Updates:** Regularly check the ASUS support website for the latest drivers to ensure optimal performance, compatibility, and security updates.

- **Physical Care:** Keep the adapter clean and free from dust. Avoid exposing it to extreme temperatures, humidity, or direct sunlight. When not in use, store it in a safe place to prevent physical damage.

- **Safe Removal:** Always safely remove the USB adapter from your computer when not in use, especially if you plan to transport your device.

TROUBLESHOOTING

- **No Internet Connection:**
  - Ensure the adapter is firmly seated in the USB port.
  - Verify that your router is powered on and broadcasting a WiFi signal.
  - Check if other devices can connect to the same WiFi network.
  - Restart your computer and router.

- **Slow Connection Speed:**
  - Ensure you are connected to the 5GHz band if available, as it generally offers faster speeds.
  - Confirm the adapter is plugged into a USB 3.0 port. Older USB 2.0 ports (often with black plastic inside) have lower data transfer speeds.
  - Update your adapter drivers to the latest version from the ASUS website.
  - Reduce distance to the router and minimize obstructions.

- **Adapter Not Recognized:**
  - Try plugging the adapter into a different USB port.
  - Ensure any pre-existing internal or external WiFi adapters are disabled in your network settings to prevent conflicts.
  - Reinstall the drivers for the ASUS USB-AX55 Nano.

- **Intermittent Connection:**
  - Check for sources of interference (e.g., microwaves, cordless phones, Bluetooth devices).
  - Ensure your router's firmware is up to date.
  - Consider adjusting your router's WiFi channel settings to avoid congestion.

SPECIFICATIONS

Feature	Specification

Feature	Specification
Model Number	USB-AX55 Nano
Hardware Interface	USB
Data Link Protocol	USB
Data Transfer Rate	1800 Megabits Per Second
Product Dimensions	1 x 0.63 x 0.35 inches (25.5 x 16 x 9 mm)
Item Weight	0.16 ounces (0.01 Pounds)
Color	BLACK
Compatible Devices	Desktop, Laptop
UPC	195553760751

WARRANTY INFORMATION

The ASUS AX1800 Dual Band WiFi 6 USB Adapter (USB-AX55 Nano) typically comes with a **3-year limited warranty**. Please refer to the warranty card included in your product package for specific terms, conditions, and regional variations. Keep your proof of purchase for warranty claims.
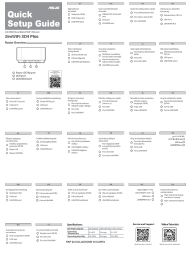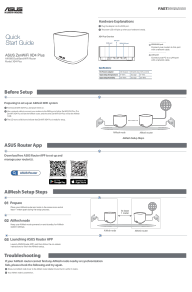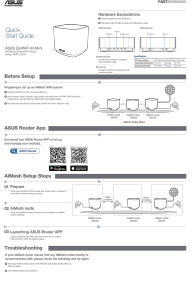
SUPPORT

For further assistance, updated drivers, or additional documentation, please visit the official ASUS support website. You can also refer to the comprehensive User Guide available online:
Official User Guide (PDF): Download User Guide

Related Documents - USB-AX55 Nano

ASUS RT-AX55, RT-AX1800 Plus, RT-AX56U V2 Quick Start Guide
This guide provides quick start instructions for setting up and using the ASUS RT-AX55, RT-AX1800 Plus, and RT-AX56U V2 Wireless-AX1800 Dual Band WiFi 6 Routers. It covers package contents, router placement, modem preparation, wired and wireless setup, and frequently asked questions.

	[ASUS PCE-AX1800 PCIe WiFi Adapter Quick Start Guide](#) A concise guide to installing and setting up the ASUS PCE-AX1800 AX1800 Dual-Band Bluetooth 5.2 PCIe WiFi Adapter for your home network.
	[ASUS RT-AX55 AX1800 WiFi 6 Router Quick Start Guide](#) Get started quickly with the ASUS RT-AX55 AX1800 Dual Band WiFi 6 Router. This guide covers setup, positioning, and basic features for your new ASUS wireless router.
	[ASUS ZenWiFi XD4 Plus AX1800 Dual Band WiFi Router Quick Setup Guide](#) This document provides a quick setup guide for the ASUS ZenWiFi XD4 Plus AX1800 Dual Band WiFi Router, detailing router overview and initial setup steps.
	[ASUS ZenWiFi XD4 Plus AX1800 Dual Band WiFi Router Quick Start Guide](#) Quick start guide for the ASUS ZenWiFi XD4 Plus AX1800 Dual Band WiFi Router, covering setup, hardware explanations, troubleshooting, and safety information.
	[ASUS ZenWiFi AX Mini AX1800 Dual Band WiFi Router Quick Start Guide](#) A quick start guide for the ASUS ZenWiFi AX Mini AX1800 Dual Band WiFi Router, covering setup, hardware explanations, app usage, AiMesh setup steps, and troubleshooting.