ASUS USB-AC53 Nano

ASUS USB-AC53 Nano USB WiFi Adapter

INSTRUCTION MANUAL

Model: USB-AC53 Nano | Brand: ASUS

1. Introduction

The ASUS USB-AC53 Nano USB Wi-Fi adapter provides an immediate upgrade to the 802.11AC Wi-Fi standard for desktops and laptops. This dual-band wireless AC1200 USB adapter supports both 2.4GHz and 5GHz frequencies, incorporating MU-MIMO technology to enhance wireless range and achieve download speeds of up to 867 Mbps.

- World's smallest Dual-Band 802.11AC MU-MIMO enabled USB Wi-Fi adapter.
- Offers plug & play functionality with straightforward setup for easy connectivity.
- Provides an instant Wi-Fi upgrade for desktops and laptops to 802.11AC compatibility, resulting in extended wireless coverage and higher data transfer speeds.
- Features Dual-band AC1200 (2.4GHz & 5GHz) Wi-Fi connectivity with download speeds up to 867 Mbps.
- MU-MIMO technology enables connection of multiple wireless devices at maximum speeds to compatible MU-MIMO enabled wireless routers and access points.

2. What's in the Box

- ASUS USB-AC53 Nano USB WiFi Adapter
- Support CD (for drivers and utilities)
- Warranty card

3. Setup

Follow these steps to install your ASUS USB-AC53 Nano USB WiFi Adapter:

1. **Insert the Adapter:** Plug the ASUS USB-AC53 Nano adapter into an available USB port on your desktop or laptop. For optimal performance and the fastest possible speeds, it is recommended to use a

USB 3.0 port. USB 3.0 ports are typically blue internally, while USB 2.0 ports are black.

2. **Install Drivers:**
    - **From Support CD:** Insert the included Support CD into your computer's optical drive. Follow the on-screen instructions to install the necessary drivers.
    - **From ASUS Website:** If your computer does not have an optical drive, or if you prefer the latest drivers, visit the official ASUS support website for the USB-AC53 Nano model and download the appropriate drivers for your operating system.
3. **Complete Installation:** Follow any remaining on-screen prompts to complete the driver installation. Once installed, your computer should recognize the adapter and display available Wi-Fi networks.



Image: The compact ASUS USB-AC53 Nano USB WiFi Adapter.

4. Operating Instructions

Once the adapter is installed, you can connect to a wireless network:

1. **Access Network Settings:**
    - **Windows:** Click the Wi-Fi icon in the system tray (usually bottom-right corner of the screen).
    - **macOS:** Click the Wi-Fi icon in the menu bar (usually top-right corner of the screen).
2. **Select Network:** A list of available Wi-Fi networks will appear. Select your desired network.
3. **Enter Password:** If prompted, enter the network security key (Wi-Fi password) and click 'Connect'.
4. **Dual-Band Connectivity:** The USB-AC53 Nano supports both 2.4GHz and 5GHz bands. You may see two network names (SSIDs) for your router, one ending in '2.4G' or similar, and another in '5G'.
    - **2.4GHz:** Offers wider coverage and better penetration through walls, but generally lower speeds. Suitable for general browsing and tasks where range is more important than speed.
    - **5GHz:** Provides faster speeds and lower latency, ideal for streaming HD video, online gaming, and

large file transfers. However, its range is shorter and it is more susceptible to obstacles.

Choose the band that best suits your current needs and location.

5. **MU-MIMO Benefit:** When connected to a MU-MIMO compatible router, the adapter can communicate with multiple devices simultaneously, improving overall network efficiency and reducing buffering, especially in busy network environments.

5. Maintenance

To ensure the longevity and optimal performance of your adapter:

- **Keep Drivers Updated:** Periodically check the ASUS support website for updated drivers. Newer drivers can improve performance, stability, and compatibility.
- **Keep Clean:** Gently clean the adapter's exterior with a soft, dry cloth. Avoid using liquid cleaners or solvents. Ensure the USB connector is free of dust and debris.
- **Safe Removal:** When removing the adapter, especially from a laptop that will be moved, always use the 'Safely Remove Hardware' option in your operating system to prevent data corruption or damage to the adapter.
- **Storage:** When not in use, store the adapter in a cool, dry place, away from direct sunlight and extreme temperatures.

6. Troubleshooting

If you encounter issues with your USB-AC53 Nano adapter, try the following solutions:

- **No Wi-Fi Connection:**
  - Ensure the adapter is securely plugged into a USB port.
  - Verify that Wi-Fi is enabled on your computer.
  - Check if your router is powered on and broadcasting a Wi-Fi signal.
  - Try restarting your computer and router.
- **Slow Connection Speed:**
  - Ensure the adapter is plugged into a USB 3.0 port if available.
  - Move closer to your Wi-Fi router to improve signal strength.
  - Try connecting to the 5GHz band if your router supports it and you are in close proximity.
  - Check for interference from other electronic devices (e.g., microwaves, cordless phones).
  - Update your adapter drivers to the latest version.
- **Adapter Not Recognized:**
  - Try plugging the adapter into a different USB port.
  - Reinstall the drivers from the Support CD or the ASUS website.
  - Check Device Manager (Windows) or System Information (macOS) to see if the adapter is listed and functioning correctly.
- **Intermittent Connection:**
  - Ensure the adapter is not obstructed.
  - Update your router's firmware.
  - Adjust your router's Wi-Fi channel to avoid congestion.

7. Specifications

Model Number	USB-AC53 Nano
Brand	ASUS
Hardware Interface	USB
Color	Black
Compatible Devices	Desktop, Game Console, Laptop, Smart TV
Data Link Protocol	IEEE 802.11ac
Data Transfer Rate	1200 Megabits Per Second (AC1200)
Frequency Bands	2.4GHz, 5GHz (Dual-Band)
Wireless Standard	Wi-Fi 5 (802.11ac)
Special Features	MU-MIMO
Compatible Operating Systems	Windows XP/Vista/7/8/8.1/10, MAC OS
Product Dimensions	5.71 x 1.38 x 7.28 inches
Item Weight	1.45 ounces (41 Grams)
UPC	889349519080

8. Warranty and Support

Your ASUS USB-AC53 Nano USB WiFi Adapter comes with a warranty. Please refer to the included Warranty Card for detailed information regarding warranty terms, conditions, and duration.

For technical support, driver downloads, FAQs, and further assistance, please visit the official ASUS support website. You can typically find support resources by searching for your product model (USB-AC53 Nano) on their website.

9. Important Information

Legal Disclaimer: Actual data throughput and Wi-Fi coverage will vary based on network conditions and environmental factors. These factors include the volume of network traffic, building materials and construction, and network overhead, all of which can result in lower actual data throughput and wireless coverage than advertised.