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Cudy WU650

Cudy AC650 USB WiFi Adapter User Manual

Model: WU650

1. Introduction

The Cudy AC650 USB WiFi Adapter (Model: WU650) is a compact, dual-band wireless adapter designed to provide high-speed Wi-Fi connectivity to your PC or laptop. It supports the latest 802.11ac standard, offering faster speeds and improved performance for online activities such as streaming, gaming, and browsing.



Image: The Cudy AC650 USB WiFi Adapter, a small black and gold device.

2. Package Contents

Please verify that all items are present in your package:

- Cudy AC650 USB WiFi Adapter (WU650)
- Resource CD (contains driver and manual)
- Quick Installation Guide



Image: The retail box, quick installation guide, driver CD, and the compact Cudy AC650 USB WiFi Adapter.

3. Setup and Driver Installation

Follow these steps to install your Cudy AC650 USB WiFi Adapter:

1. **Insert the Adapter:** Plug the Cudy AC650 USB WiFi Adapter into an available USB port on your computer.



Image: A hand inserting the compact Cudy AC650 USB WiFi Adapter into the side USB port of a laptop.

2. **Install Drivers:**
    - **Using the Resource CD:** Insert the provided resource CD into your computer's CD-ROM drive and follow the on-screen instructions to install the drivers.
    - **Downloading Drivers:** If your computer does not have a CD-ROM drive, or if the mini-CD is not compatible (e.g., with slot-loading drives), you can download the latest drivers from the official Cudy website. The download address is typically printed on the manual.

    Note: *For some Windows systems (especially Windows 10/11), the adapter may be plug-and-play, and drivers might install automatically. However, manual installation is recommended if automatic installation fails or for older operating systems.*
3. **Connect to Wi-Fi:** Once the drivers are installed, your computer will detect the adapter. You can then select your desired Wi-Fi network from the available networks list and enter the password to connect.



Image: Icons representing compatibility with Windows XP, 7, 8, 8.1, 10, Mac OS, and Linux operating systems.

4. Operating Instructions

4.1 Dual-Band Connectivity

The Cudy AC650 supports both 2.4GHz and 5GHz Wi-Fi bands. This allows you to choose the best band for your needs:

- **2.4GHz Band:** Offers wider coverage and better penetration through walls, suitable for general browsing and tasks that don't require very high speeds. Maximum speed up to 200Mbps.
- **5GHz Band:** Provides faster speeds and less interference, ideal for online gaming, HD video streaming, and large file transfers. Maximum speed up to 433Mbps.



Image: The Cudy AC650 adapter with illustrations of 2.4GHz (200Mbps) and 5GHz (433Mbps) wireless signals, along with icons for music, internet, gaming, and 4K video, indicating suitable uses.

4.2 Soft-AP Mode

The Soft-AP mode feature allows the Cudy AC650 to turn a wired internet connection on your PC or laptop into a Wi-Fi hotspot. This enables other mobile devices (smartphones, tablets, etc.) to connect to the internet through your computer's Wi-Fi adapter.
To activate Soft-AP mode, refer to the detailed instructions in the full user manual or the Cudy support website.



Image: A laptop with the Cudy AC650 USB WiFi Adapter plugged in, demonstrating its small, nano size, barely protruding from the USB port, even when the laptop is placed in a sleeve.

5. Maintenance

The Cudy AC650 USB WiFi Adapter is designed for durability and requires minimal maintenance. To ensure optimal performance:

- Keep the adapter clean and free from dust.
- Avoid exposing the adapter to extreme temperatures or humidity.
- Ensure the adapter is securely plugged into the USB port to prevent accidental disconnections.
- Periodically check the Cudy website for updated drivers to ensure compatibility and performance improvements.

6. Troubleshooting

If you encounter issues with your Cudy AC650 USB WiFi Adapter, please refer to the following common solutions:

Problem	Possible Cause	Solution
Adapter not detected / No Wi-Fi networks found.	Drivers not installed or corrupted. Adapter not properly seated.	Ensure the adapter is fully inserted into the USB port. Reinstall the drivers from the provided CD or Cudy website. Try a different USB port.
Slow connection speed.	Connected to 2.4GHz band instead of 5GHz. Interference. Distance from router.	Connect to the 5GHz network if available. Reduce obstacles between the adapter and the router. Move closer to the Wi-Fi router.
Frequent disconnections.	Weak signal. Driver issue. Power management settings.	Ensure strong Wi-Fi signal. Update or reinstall drivers. Disable power saving features for the USB port/adapter in Device Manager.
Not compatible with macOS Big Sur.	Known limitation.	The Cudy WU650 does not support macOS Big Sur. Consider an alternative adapter for this operating system version.

7. Specifications

Feature	Detail
Model	WU650
Wireless Standards	IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
Frequency	2.4GHz & 5GHz
Data Transfer Rate	Up to 433Mbps (5GHz), Up to 200Mbps (2.4GHz)
Interface	USB 2.0
Dimensions (L x W x H)	0.59 x 0.31 x 0.79 inches (15 x 8 x 20 mm)
Weight	0.071 ounces (2 Grams)

Feature	Detail
Compatible Operating Systems	Windows XP/Vista/7/8/8.1/10/11, Mac OS, Linux (Note: Not support macOS Big Sur)
UPC	731717225904



Image: The Cudy AC650 USB WiFi Adapter shown next to a laptop, with dimensions of 20mm length, 15mm width, and 8mm height indicated.

8. Warranty and Support

Cudy products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cudy website.
For technical support, driver downloads, FAQs, and further assistance, please visit the Cudy support page or contact Cudy customer service directly. Contact information can be found in your Quick Installation Guide or on the Cudy website.

Cudy Official Website: www.cudy.com
Email Support: support@cudy.com

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