

[Manuals.plus](#) /

› [Wonlink](#) /

› WONLINK USB WiFi Adapter for PC, 900M 2-in-1 WiFi Bluetooth 5.3 Adapter for PC, USB WiFi6 Dual Band 5G/2.4G Antenna Bluetooth Receiver for PC/Headphones/Mouse/Keyboards, 802.11ax only supports Win10/11

Wonlink WL-NA1605

WONLINK USB WiFi + Bluetooth Adapter User Manual

Model: WL-NA1605

1. INTRODUCTION

Thank you for choosing the WONLINK USB WiFi + Bluetooth Adapter. This 2-in-1 device provides high-speed wireless connectivity for your PC, combining WiFi 6 (802.11ax) and Bluetooth 5.3 capabilities. Designed for ease of use and portability, it enhances your computing experience by offering stable and fast network access and seamless connection to various Bluetooth devices.



Figure 1: WONLINK USB Wi-Fi + Bluetooth Adapter

2. PRODUCT OVERVIEW

2.1 Key Features

- **2-in-1 Functionality:** Combines USB Wi-Fi and Bluetooth into a single compact adapter, saving USB ports.
- **WiFi 6 (802.11ax) Technology:** Utilizes the latest WiFi6 standard and RTL8832BU chip for enhanced stability and anti-interference.
- **Dual-Band Connectivity:** Supports 2.4G and 5G bands with OFDMA+MU-MIMO technology for optimal performance.
- **High-Speed WiFi:** Achieves up to 900 Mbps data transfer rate.
- **Bluetooth 5.3:** Features low-power Bluetooth BLE technology for faster and more stable connections than Bluetooth 5.2.
- **Multi-Device Support:** Connects up to 5 different Bluetooth devices simultaneously (e.g., mobile phones, PS5, Switch, headphones, keyboards, mice).
- **Portable Design:** Mini USB size with a dust-proof cover, ideal for travel and on-the-go use.
- **Windows 10/11 Compatibility:** Designed specifically for Windows 10 and 11 operating systems.

2.2 Package Contents

- WONLINK 900 Mbps USB Wi-Fi + Bluetooth Adapter (Model: WL-NA1605) x 1

- Installation Manual x 1



Figure 2: Product Label with Model Information

3. SETUP GUIDE

3.1 System Requirements

- Operating System: Windows 10 or Windows 11
- Available USB Port (USB 2.0 or USB 3.0 recommended for optimal performance)

3.2 Driver Installation

1. **Insert the Adapter:** Plug the WONLINK USB WiFi + Bluetooth Adapter into an available USB port on your PC.
2. **Automatic Driver Detection:** Windows may initially recognize the device as an external drive. This is expected. The adapter contains a small internal flash memory with the necessary drivers.
3. **Run Installer:** The installation program, typically named "WifiAutoInstallSetup.exe", should automatically launch. If it does not, navigate to "This PC" or "My Computer", locate the newly detected USB drive (it might appear as a small capacity drive), and manually run "WifiAutoInstallSetup.exe".
4. **Follow On-Screen Prompts:** Proceed with the installation by following the instructions provided by the setup wizard.
5. **Verify Installation:** Once the installation is complete, open Device Manager (search for "Device Manager" in the Windows search bar). You should see the Bluetooth device listed under "Bluetooth" (e.g., "Bluetooth Device Personal Area Network") and the wireless network adapter under "Network adapters" (e.g., "Realtek 8851BU Wireless LAN Wifi 6 USB NIC").
6. **Important Note on Services:** The installation adds two services: "WifiAutoInstallSrv" and "RTUsbSwSrv". The "RTUsbSwSrv" service must remain running for the adapter's Bluetooth and WiFi functions to be recognized, especially if you unplug and re-plug the device.

Security Tip: For enhanced security, consider disabling automatic playback for external USB drives in your Windows settings. Always scan any new executable files with a reputable antivirus program before running them.

4. OPERATING INSTRUCTIONS

4.1 Connecting to Wi-Fi

1. Ensure the adapter is properly installed and recognized by your system.
2. Click on the Wi-Fi icon in your Windows taskbar (usually in the bottom-right corner).
3. Select your desired Wi-Fi network from the list of available networks.
4. Click "Connect" and enter the network password if prompted.
5. Your PC should now be connected to the Wi-Fi network.

4.2 Connecting Bluetooth Devices

1. Ensure the adapter is properly installed and recognized.
2. Go to Windows Settings > Devices > Bluetooth & other devices.
3. Turn on Bluetooth if it's not already enabled.
4. Put your Bluetooth device (e.g., headphones, mouse, keyboard) into pairing mode. Refer to your device's manual for specific instructions.
5. Click "Add Bluetooth or other device" and select "Bluetooth".
6. Select your device from the list that appears and follow any on-screen prompts to complete the pairing process.

4.3 Optimizing Performance

- **USB Port Selection:** For optimal speed and access to 5G networks, plug the adapter into a USB 3.0 port on your computer. While compatible with USB 2.0, performance may be limited.
- **Disable Power Saving:** To prevent intermittent disconnections or reduced performance, disable power saving mode for the USB device in Device Manager. Navigate to Device Manager > Network adapters > Realtek 8851BU Wireless LAN Wifi 6 USB NIC (or similar) > Properties > Power Management tab, and uncheck "Allow the computer to turn off this device to save power". Do the same for the Bluetooth adapter under "Bluetooth".
- **Proximity:** The recommended operating distance for the adapter is within 10 meters (approximately 33 feet). Performance may degrade beyond this range.
- **Network Configuration:** For advanced network settings in Windows, press **Win + R** and type **ncpa.cpl** to open Network Connections.

5. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the adapter. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use, keep the dust-proof cap on the adapter to protect the USB connector. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the adapter gently. Avoid dropping it or subjecting it to strong impacts.
- **Ventilation:** Ensure the adapter is not obstructed when plugged in, allowing for proper airflow.

6. TROUBLESHOOTING

Issue	Possible Cause	Solution
Adapter not recognized or not functioning (no WiFi/Bluetooth)	Drivers not installed correctly; "RTUsbSwSrv" service stopped; faulty USB port.	Re-run the driver installation from the adapter's internal memory. Check Device Manager for driver status. Ensure the "RTUsbSwSrv" service is running (search for "Services" in Windows, find the service, and start it if stopped). Try a different USB port.
Slow WiFi speed or frequent disconnections	Connected to USB 2.0 port; power saving mode enabled; distance from router; interference.	Plug into a USB 3.0 port. Disable power saving for the adapter in Device Manager. Move closer to your Wi-Fi router. Ensure no large obstacles or other wireless devices are causing interference.
Bluetooth devices not pairing or disconnecting	Bluetooth not enabled; device not in pairing mode; interference.	Ensure Bluetooth is enabled in Windows settings. Put your Bluetooth device into pairing mode. Try re-pairing the device. Reduce distance between adapter and Bluetooth device.
Installation program does not auto-run	Windows AutoPlay disabled; system security settings.	Manually navigate to "This PC" or "My Computer", locate the adapter's drive, and run "WifiAutoInstallSetup.exe".

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	WL-NA1605
Brand	Wonlink
Color	Black
Hardware Interface	USB 2.0 (compatible with USB 3.0), Bluetooth 5
Data Link Protocol	IEEE 802.11ax (WiFi 6)
Data Transfer Rate	Up to 900 Mbps
Compatible Devices	PC, computer, PS5, Switch, headphones, keyboard, mouse
Operating System Compatibility	Windows 10, Windows 11
Bluetooth Version	5.3 (BLE)
Operating Distance	Recommended up to 10 meters

8. WARRANTY AND SUPPORT

WONLINK provides a comprehensive warranty and dedicated customer support for your product.

8.1 Warranty Information

- This product comes with a **12-month warranty** from the date of purchase.
- The warranty covers manufacturing defects and malfunctions under normal use.
- Please retain your proof of purchase for warranty claims.

8.2 Customer Support

- For technical assistance, troubleshooting, or warranty inquiries, please contact WONLINK customer support.
- We offer **7x24H technical support** to assist you with any issues.
- Contact details can typically be found on the product packaging or the official WONLINK website.