

WONLINK WL-NE3501

WONLINK WL-NE3501 WiFi Extender Signal Booster User Manual

Model: WL-NE3501

1. INTRODUCTION

The WONLINK WL-NE3501 WiFi Extender Signal Booster is designed to expand your existing wireless network coverage, eliminate Wi-Fi dead zones, and provide a stable, high-speed internet connection throughout your home or office. This device supports dual-band Wi-Fi (2.4GHz and 5GHz) and offers multiple operating modes to suit various networking needs. Please read this manual carefully to ensure proper installation and operation.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Dual-Band Wi-Fi:** Supports both 2.4GHz (up to 300Mbps) and 5GHz (up to 867Mbps) for a combined speed of up to 1200Mbps.
- **Extended Coverage:** Designed to extend Wi-Fi signal over a wide area, reducing dead zones.
- **Ethernet Port:** Includes a 10/100 Mbps Ethernet port for stable wired connections or AP mode.
- **Multiple Operating Modes:** Functions as a Repeater, Access Point (AP), or Router.
- **Easy Setup:** Supports WPS (Wi-Fi Protected Setup) for one-tap configuration.
- **Advanced Security:** Supports WPA, WPA2, WPA-PSK, and WPA2-PSK encryption protocols.
- **High Gain Antennas:** Equipped with four external antennas for improved signal strength and reliability.

2.2 Package Contents

- WONLINK WL-NE3501 WiFi Extender Unit
- User Manual

1200Mbps WiFi Repeater High Performance & Ultra Stable

The AC1200 WiFi Repeater connects wirelessly to an existing router and extends the WiFi signal to areas it cannot reach on its own.



Figure 1: WONLINK WL-NE3501 WiFi Extender with four antennas and indicator lights.

3. SETUP

Follow these steps to set up your WONLINK WL-NE3501 WiFi Extender.

3.1 Placement Recommendations

For optimal performance, place the extender in a location that is:

- Midway between your main router and the area with weak Wi-Fi signal.
- Away from obstructions like thick walls, metal objects, or large appliances.
- Not too close to other electronic devices that might cause interference.



Figure 2: Recommended placement for wide Wi-Fi coverage in a home environment.

3.2 Quick Setup (WPS Method)

1. Plug the WONLINK WL-NE3501 into a power outlet near your main router.
2. Wait for the Power LED to turn solid blue.
3. Press the WPS button on your main router.
4. Within two minutes, press the WPS button on the WONLINK WL-NE3501.
5. The Signal LED on the extender will blink and then turn solid blue, indicating a successful connection.
6. Unplug the extender and move it to your desired location (refer to Placement Recommendations).



Figure 3: WPS One-Tap Setup for quick connection.

3.3 Manual Setup (Web Browser Method)

1. Plug the WONLINK WL-NE3501 into a power outlet.
2. On your computer or mobile device, connect to the extender's default Wi-Fi network (e.g., "WONLINK_EXT"). No password is required initially.
3. Open a web browser and enter the default IP address or domain name (usually found on a sticker on the device or in the quick start guide).
4. Follow the on-screen instructions to select your desired operating mode (Repeater, AP, or Router) and configure network settings, including selecting your main Wi-Fi network and entering its password.
5. Once configured, the extender will restart. You can then connect your devices to the extended Wi-Fi network.

4. OPERATING MODES

The WONLINK WL-NE3501 supports three primary operating modes:

- **Repeater Mode:** Extends the coverage of an existing wireless network. This is the most common mode for eliminating Wi-Fi dead zones.
- **Access Point (AP) Mode:** Converts a wired internet connection into a wireless network. Ideal for areas where only a wired connection is available but Wi-Fi is needed.
- **Router Mode:** Functions as a basic router, creating a new private network from a modem connection.



Figure 4: Multiple modes of operation including Repeater and AP/Router modes.

4.1 Using the Ethernet Port

The integrated 10/100 Mbps Ethernet port can be used for:

- Connecting a wired device (e.g., PC, gaming console, smart TV) to the extended Wi-Fi network in Repeater mode.
- Receiving an internet connection from a modem or router when operating in AP or Router mode.

Ethernet Port 10/100 Mbps

In addition to wireless connection, you can also connect a network cable and select AP mode or routing mode to enjoy a more stable wired network.



Figure 5: Ethernet Port for wired connections.

5. MAINTENANCE

To ensure the longevity and optimal performance of your WONLINK WL-NE3501, consider the following maintenance tips:

- **Keep Clean:** Regularly wipe the device with a soft, dry cloth to prevent dust buildup, which can affect ventilation.
- **Ensure Ventilation:** Do not block the ventilation holes on the device. Ensure it is placed in an area with adequate airflow to prevent overheating.
- **Firmware Updates:** Periodically check the WONLINK official website for available firmware updates. Updating firmware can improve performance, add new features, and enhance security.
- **Regular Reboot:** If you experience performance issues, try rebooting the extender by unplugging it from the power outlet for 10 seconds and then plugging it back in.

6. TROUBLESHOOTING

If you encounter issues with your WiFi Extender, refer to the following common problems and solutions:

6.1 No Internet Access or Weak Signal

- **Check Power:** Ensure the extender is properly plugged into a working power outlet and the Power LED is solid blue.
- **Reposition Extender:** The extender might be too far from your main router or too close to a signal-blocking object. Try moving it to a location midway between your router and the dead zone.
- **Verify Router Connection:** Ensure your main router is working correctly and providing internet access.
- **Check Signal LED:** If the Signal LED is off or red, the connection to your main router is poor. Reposition the extender closer to the router.

6.2 Cannot Connect to the Extender's Wi-Fi Network

- **Incorrect Password:** Double-check the Wi-Fi password for the extended network. It is usually the same as your main router's password unless you changed it during setup.
- **Restart Devices:** Reboot your device (phone, laptop) and the extender.
- **Reset Extender:** If problems persist, perform a factory reset on the extender (usually by pressing a reset button for 5-10 seconds) and reconfigure it.

6.3 Setup Page Not Accessible

- **Connect to Extender's Default Network:** Ensure your device is connected to the extender's default Wi-Fi network (e.g., "WONLINK_EXT") before attempting to access the setup page.
- **Clear Browser Cache:** Clear your web browser's cache and cookies, or try a different browser.
- **Verify IP Address:** Ensure you are entering the correct default IP address or domain name for the extender.

7. SPECIFICATIONS

Feature	Detail
Model Number	WL-NE3501
Wireless Standard	IEEE 802.11 ac/a/b/g/n
Frequency Bands	2.4 GHz, 5 GHz
Data Rate	Up to 1200 Mbps (300 Mbps on 2.4GHz, 867 Mbps on 5GHz)
Antennas	4 External High Gain Antennas
Ethernet Port	1 x 10/100 Mbps RJ45 Port
Security	WPA-PSK/WPA2-PSK, WPA/WPA2
Operating Modes	Repeater, AP, Router
Item Weight	8.1 ounces (approx. 230 grams)
Package Dimensions	8.23 x 3.82 x 3.11 inches

Estimated Coverage

Up to 929 square meters (approx. 10,000 sq.ft)

4 Antenna WiFi Repeater

Dual-band WiFi speeds of up to 1.2 Gbps, ideal for HD video streaming and online gaming



Figure 6: Dual-band capabilities and antenna design.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

For detailed warranty information regarding your WONLINK WL-NE3501 WiFi Extender, please refer to the product packaging or visit the official WONLINK website. Warranty terms and conditions may vary by region and purchase date.

8.2 Technical Support

If you require technical assistance or have questions not covered in this manual, please contact WONLINK customer support. Contact details can typically be found on the WONLINK official website or on the product packaging.

