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› TP-Link TD-W8951ND 150 Mbps Wireless N ADSL2+ Modem Router User Manual

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Model: TD-W8951ND

INTRODUCTION

The TP-Link TD-W8951ND 150 Mbps Wireless N ADSL2+ Modem Router is an all-in-one networking device designed to provide high-speed internet access and sharing capabilities over wired and wireless networks. It integrates the functions of a high-speed DSL modem, a 4-Port 10/100Mbps NAT router, and a wireless N access point. This device is ideal for home and small office environments, offering a streamlined solution for internet connectivity, file sharing, VoIP, and multimedia streaming.



Front view of the TP-Link TD-W8951ND modem router, showing the status indicator lights for Power, ADSL, Internet, WLAN, and LAN ports (1-4), along with the QSS button. A single external antenna is visible on the left side.

PACKAGE CONTENTS

Verify that all items are included in your package:

- TD-W8951ND Modem Router
- External Splitter
- RJ-11 Telephone Cable
- RJ-45 Ethernet Cable
- Quick Installation Guide
- Resource CD
- Power Adapter

SETUP AND INSTALLATION

The TD-W8951ND is designed for easy installation. Follow these steps to set up your modem router:

1. **Connect the Hardware:**

- Connect the ADSL port of the modem router to your telephone line using the RJ-11 cable and external splitter.
- Connect your computer to one of the LAN ports (1-4) on the modem router using the RJ-45 Ethernet cable, or connect wirelessly.
- Connect the power adapter to the modem router's power input and plug it into a power outlet.

2. **Power On:** Press the power button to turn on the device. Wait for the Power, ADSL, and Internet LEDs to stabilize.

3. **Initial Configuration:**

- Insert the Resource CD into your computer and run the Easy Setup Assistant. Follow the on-screen instructions to configure your internet connection and wireless settings.
- Alternatively, open a web browser and enter the default IP address (usually 192.168.1.1) to access the web-based management interface. Enter the default username and password (refer to the Quick Installation Guide for details).
- Configure your ADSL settings (VPI/VCI, connection type, username, password) provided by your Internet Service Provider (ISP).
- Set up your wireless network (SSID, security type, password).

4. **Verify Connection:** Once configured, ensure the Internet LED is solid green, indicating a successful connection.

OPERATING INSTRUCTIONS

LED Indicators

The front panel LEDs provide information about the modem router's status:

- **Power:** On when the device is powered on.
- **ADSL:** Solid green when ADSL line is connected and synchronized. Blinking indicates synchronization in progress.
- **Internet:** Solid green when connected to the internet. Blinking indicates data activity.
- **WLAN:** Solid green when wireless function is enabled. Blinking indicates wireless data activity.
- **LAN (1-4):** Solid green when a device is connected to the corresponding LAN port. Blinking indicates data activity.
- **QSS:** Blinking during WPS setup. Solid green for a few seconds after successful WPS connection.

Wireless Connectivity

The TD-W8951ND supports Wireless N standards, providing speeds up to 150Mbps. To connect to the wireless network:

- Search for available Wi-Fi networks on your device.
- Select your network's SSID (Service Set Identifier).
- Enter the wireless password (WPA/WPA2-PSK) you configured during setup.
- Alternatively, use the **QSS (Quick Security Setup) / WPS** button on the front panel for easy one-touch wireless security encryption. Press the QSS button on the router, then activate WPS on your wireless client within two minutes.

Wired Connectivity

The modem router features four 10/100Mbps LAN ports for connecting wired devices such as desktop computers, gaming consoles, or network printers.

Advanced Features

- **Quality of Service (QoS):** Prioritizes internet traffic for bandwidth-sensitive applications like voice and video

streaming, ensuring a smooth experience.

- **NAT and SPI Firewall:** Provides robust network security by inspecting incoming packets and preventing potential attacks.
- **Access Control:** Allows administrators to set restricted access policies based on MAC addresses, IP addresses, or domain names.
- **Port VLAN:** Binds specific LAN ports and PVCs for differential services, useful for IPTV.
- **IPv6 Support:** Future-proofs your network with support for the latest Internet Protocol.

MAINTENANCE

To ensure optimal performance and longevity of your TP-Link TD-W8951ND modem router, consider the following maintenance tips:

- **Placement:** Place the router in a central location, away from obstructions and devices that emit strong electromagnetic interference (e.g., microwaves, cordless phones).
- **Ventilation:** Ensure adequate airflow around the device to prevent overheating. Do not cover ventilation holes.
- **Cleaning:** Gently wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the TP-Link official website for firmware updates. Updating firmware can improve performance, add new features, and fix bugs.
- **Restarting:** If you experience connectivity issues, try restarting the modem router by unplugging the power adapter for 10 seconds and then plugging it back in.

TROUBLESHOOTING

This section addresses common issues you might encounter with your TD-W8951ND modem router.

No Internet Access

- **Check Cables:** Ensure all cables (power, ADSL, Ethernet) are securely connected.
- **LED Status:** Verify that the Power, ADSL, and Internet LEDs are solid green. If ADSL is blinking or off, check your telephone line connection or contact your ISP. If Internet is off, check your ISP settings in the router's web interface.
- **ISP Settings:** Confirm that your ADSL username and password, VPI/VCI, and connection type are correctly entered in the router's configuration.
- **Restart:** Power cycle the modem router and your computer/device.

Unstable or Weak Wi-Fi Signal

- **Router Placement:** Move the router to a more central location, away from walls, large metal objects, and other electronic devices that may cause interference.
- **Interference:** Other wireless devices (cordless phones, microwaves) operating on the same frequency (2.4GHz) can cause interference. Try changing the wireless channel in the router's settings.
- **Firmware:** Ensure your router's firmware is up to date.
- **Wireless Mode:** If experiencing instability, try setting the wireless mode to 802.11b/g instead of 802.11n in the router's wireless settings, especially if you have older devices.

Router Restarts Repeatedly / Freezes

- **Overheating:** Ensure the router has proper ventilation and is not placed in an enclosed space.
- **Power Supply:** Verify that the power adapter is the original one supplied with the device and that the power outlet is stable.
- **Firmware:** This can often be resolved by updating to the latest firmware version available from TP-Link's website.
- **Factory Reset:** As a last resort, perform a factory reset by pressing and holding the reset button (usually a small pinhole) for about 10 seconds while the device is powered on. Note that this will erase all your configurations, and

you will need to set up the router again.

SPECIFICATIONS

Feature	Detail
Model Number	TD-W8951ND
Connectivity Type	Wi-Fi, Wired (Ethernet)
Wireless Standards	IEEE 802.11b, 802.11g, 802.11n
Wireless Speed	Up to 150 Mbps (Wireless N)
ADSL Standards	ADSL2+, ADSL2, ADSL
Ethernet Ports	4 x 10/100Mbps LAN Ports
Dimensions (LxWxH)	17.4 x 12 x 2.9 cm
Item Weight	128 g
Security Features	NAT Firewall, SPI Firewall, WPA/WPA2-PSK, WPS
Special Features	QoS, Port VLAN, IPv6 Support, Easy Setup Assistant

WARRANTY AND SUPPORT

The TP-Link TD-W8951ND Modem Router comes with a **3-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, firmware updates, and additional resources, please visit the official TP-Link support website. You can find contact information and FAQs there.

Online Support: www.tp-link.com/support