

Zbtlink WE826-T

Zbtlink 4G LTE Router WE826-T

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Zbtlink 4G LTE Router, Model WE826-T. This device is designed to provide reliable internet connectivity using a 4G LTE SIM card, converting cellular signals into Wi-Fi and wired Ethernet for various applications including home, RV, travel, and small office environments.

The router features a Quectel EC25AFXDGA LTE Cat4 module, offering download speeds up to 150Mbps and upload speeds up to 50Mbps. It supports Wi-Fi N300 (802.11 b/g/n) with 2T2R MIMO for wireless speeds up to 300Mbps. The device includes multiple LAN ports, a WAN port, USB 2.0, and a TF card slot for expanded functionality.

2. PACKAGE CONTENTS

Before proceeding with the setup, please verify that all items are present in your package:

- 1x Zbtlink 4G LTE Router (WE826-T)
- 1x 12V/1A Power Adapter
- 1x Ethernet Cable
- 1x SIM Card Adapter
- 2x 2.4G Wi-Fi Antennas (5dBi omnidirectional)
- 2x 4G LTE Antennas (5dBi omnidirectional)
- 1x User Manual (this document)
- 1x Quality Certificate

3. SETUP INSTRUCTIONS

3.1 Hardware Installation

1. **Attach Antennas:** Carefully screw the two 2.4G Wi-Fi antennas and two 4G LTE antennas into their respective connectors on the router. Ensure they are securely fastened but do not overtighten.
2. **Insert SIM Card:** Locate the SIM card slot on the side of the router. Insert your standard large-format AT&T or T-Mobile compatible SIM card into the slot until it clicks into place. If your SIM card is a smaller size (Nano or Micro), use the provided SIM card adapter.



Figure 3.1: SIM Card Insertion

3. **Connect Power:** Connect the provided 12V/1A power adapter to the DC input port on the router and then plug it into a power outlet. The router will power on automatically.
4. **(Optional) Connect Ethernet Devices:** For wired connections, connect your computer, smart TV, or gaming console to any of the four LAN ports (LAN1-LAN4) using an Ethernet cable. If you have an existing wired internet connection you wish to use as a primary source, connect it to the WAN port.

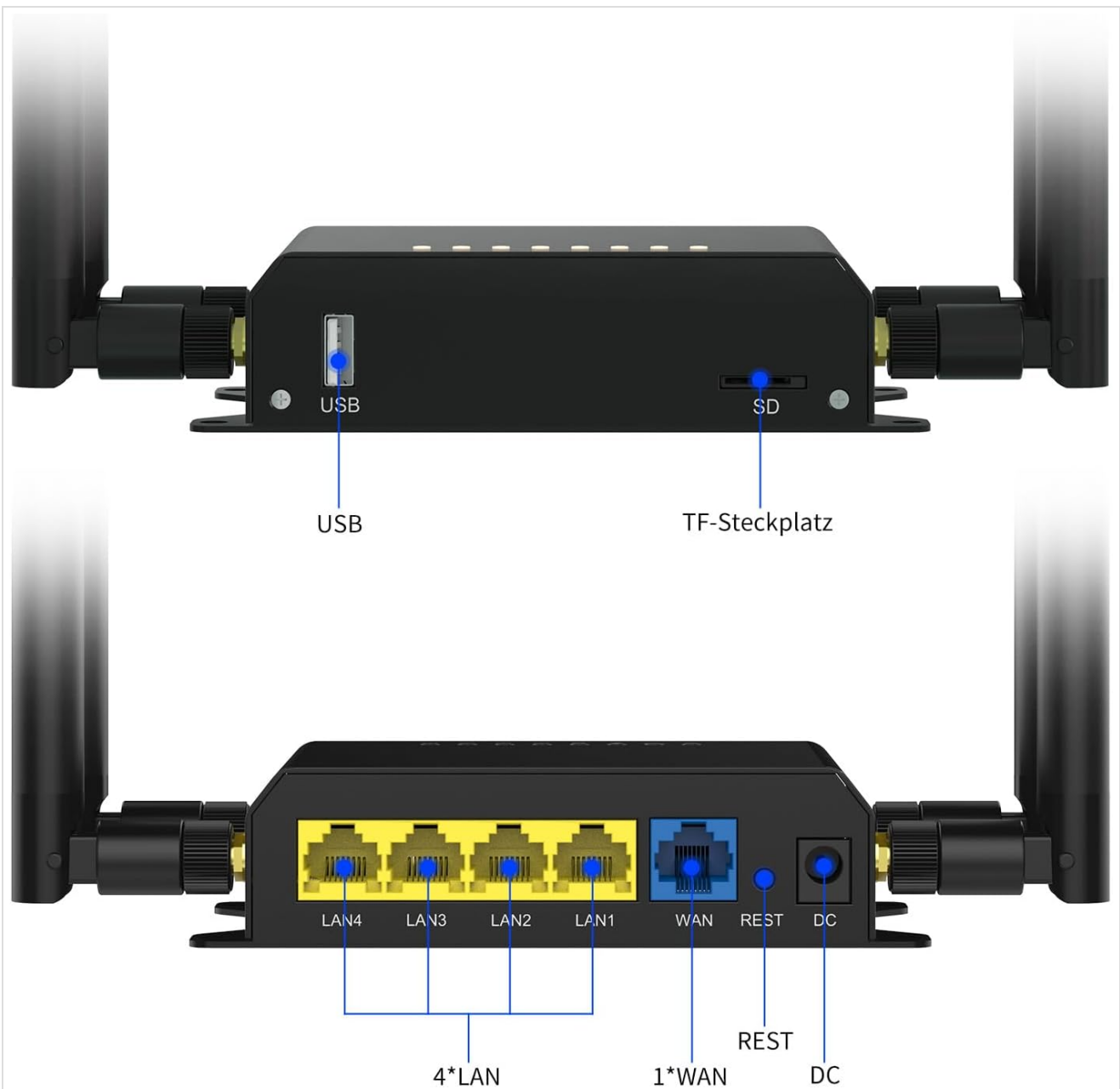


Figure 3.2: Router Port Layout

3.2 Initial Configuration

After hardware installation, configure the router via its web interface:

1. **Connect to Router:** Connect your computer to the router via Wi-Fi (look for the default SSID printed on the router label) or via an Ethernet cable to one of the LAN ports.
2. **Access Web Dashboard:** Open a web browser and enter the default IP address **192.168.1.1** in the address bar.
3. **Login:** Enter the default username **root** and password **admin**.
4. **Configure Settings:** Follow the on-screen prompts to set up your internet connection (APN settings for your SIM card may be required, consult your carrier if unsure), Wi-Fi name (SSID), and password. It is recommended to change the default login password for security.

4. OPERATING INSTRUCTIONS

4.1 4G LTE Connectivity

Once your SIM card is inserted and configured, the router will automatically connect to the 4G LTE network. The

LED indicators on the router will show the status of the 4G connection. Ensure your SIM card has an active data plan compatible with the router's supported bands (B2/B4/B5/B12/B17/B29/B30/B66 for LTE-FDD and B2/B4/B5 for WCDMA).

4.2 Wi-Fi Network Usage

Connect your wireless devices (smartphones, tablets, laptops) to the router's Wi-Fi network using the SSID and password you configured during setup. The router provides 2.4GHz Wi-Fi (802.11 b/g/n) with speeds up to 300Mbps.



Figure 4.1: Network Sharing via 4G LTE Router

4.3 Advanced Features

- **USB 2.0 and TF Card Slot:** The router includes a USB 2.0 port and a TF (microSD) card slot. You can connect a USB drive or memory card to create a Network-Attached Storage (NAS) server. Files can be shared over Wi-Fi using SAMBA or FTP protocols, allowing access to media, documents, and backups from any device on your network.
- **OpenWrt Compatibility:** For advanced users, the router is fully compatible with OpenWrt firmware. This allows for custom firewall rules, VLAN configurations, policy routing, and other advanced network controls.

Contact customer service for the OpenWrt upgrade kit if you wish to utilize this feature.

- **Hardware Watchdog:** A built-in hardware watchdog automatically reboots the router if the system freezes, ensuring continuous operation and reliability.

5. MAINTENANCE

5.1 Firmware Updates

Periodically check the manufacturer's website for firmware updates. Keeping your router's firmware up-to-date ensures optimal performance, security, and access to new features. For OpenWrt upgrades, refer to the specific instructions provided with the upgrade kit.

5.2 Cleaning

To maintain proper airflow and prevent overheating, ensure the router's ventilation holes are clear of dust and obstructions. Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or abrasive materials.

5.3 Environmental Considerations

The router is designed to operate in a wide temperature range (-20 to 60 degrees C / -4 to 140F), making it suitable for various environments. However, avoid exposing the device to direct sunlight, extreme humidity, or corrosive substances. Ensure adequate ventilation around the router.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Zbtlink 4G LTE Router.

6.1 No Internet Connection

- **Check SIM Card:** Ensure the SIM card is correctly inserted and has an active data plan. Verify that the SIM card is compatible with AT&T or T-Mobile networks and the router's supported bands.
- **APN Settings:** Log into the web dashboard (192.168.1.1) and verify that the Access Point Name (APN) settings are correctly configured for your cellular carrier. These settings are often provided by your carrier.
- **Signal Strength:** Check the 4G signal strength indicators on the router or in the web interface. If the signal is weak, try repositioning the router or adjusting the 4G antennas.
- **WAN Connection:** If using the WAN port for wired internet, ensure the Ethernet cable is securely connected and your primary internet source is active.

6.2 Weak or Unstable Wi-Fi Signal

- **Antenna Position:** Adjust the two 2.4G Wi-Fi antennas for optimal signal coverage.
- **Router Placement:** Place the router in a central location, away from obstructions (thick walls, metal objects) and sources of interference (microwaves, cordless phones).
- **Channel Interference:** In the web dashboard, try changing the Wi-Fi channel to a less congested one.

6.3 Router Not Responding / Freezing

- **Power Cycle:** Disconnect the power adapter, wait 10 seconds, and then reconnect it.
- **Hardware Watchdog:** The built-in hardware watchdog should automatically reboot the router if it freezes. If this does not occur, a manual power cycle is necessary.

6.4 Resetting the Router

- **Factory Reset:** To restore the router to its factory default settings, locate the **RESET** button (often recessed) on the router. With the router powered on, use a paperclip or a thin object to press and hold the **RESET** button for approximately 10 seconds until the LED indicators flash. Release the button, and the router will reboot with default settings.
- **Firmware Rescue Mode:** If the router encounters a firmware issue, you can enter rescue mode by long-pressing the **RESET** button while powering on the device. This allows for flashing new firmware.

7. SPECIFICATIONS

Feature	Description
Model Name	WE826-T
4G LTE Module	Quectel EC25AFXDGA (Cat4)
4G LTE Download Speed	Up to 150 Mbps
4G LTE Upload Speed	Up to 50 Mbps
Supported LTE-FDD Bands	B2/B4/B5/B12/B17/B29/B30/B66
Supported WCDMA Bands	B2/B4/B5
Wi-Fi Standard	802.11 b/g/n (N300)
Wi-Fi Speed	Up to 300 Mbps (2.4GHz)
Antennas	2x 5dBi 2.4G Wi-Fi, 2x 5dBi 4G LTE (Detachable)
Ethernet Ports	1x 100Mbps WAN, 4x 100Mbps LAN
Other Ports	1x USB 2.0, 1x TF (MicroSD) Card Slot, 1x SIM/USIM Slot
Operating System	OpenWrt (upgradeable), RouterOS
RAM Memory	128 MB
Power Input	12V DC (6-14V absolute range)
Operating Temperature	-20 to 60 degrees C (-4 to 140F)
Dimensions (L x W x H)	10.9" x 8.3" x 2.9" (Compact 109x83x29mm flat design)
Weight	0.65 Kilograms
Certifications	FCC, RoHS (Quectel EC25AFXDGA module)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Zbtlink 4G LTE Router (Model WE826-T) comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage

caused by misuse, accidents, unauthorized modifications, or external factors.

8.2 Customer Support

For technical assistance, warranty claims, or inquiries regarding the OpenWrt upgrade kit, please contact Zbtlink customer service. Refer to the contact information provided on the product packaging or the official Zbtlink website.