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› Zbtlink AX1800 4G LTE WiFi 6 Router User Manual

Zbtlink Z2101AX-PCIE-T

Zbtlink AX1800 4G LTE WiFi 6 Router User Manual

Model: Z2101AX-PCIE-T

1. INTRODUCTION

Thank you for choosing the Zbtlink AX1800 4G LTE WiFi 6 Router. This device is designed to provide high-speed internet access through both 4G LTE networks and traditional wired broadband connections, leveraging the latest Wi-Fi 6 technology for enhanced performance and capacity. This manual will guide you through the setup, operation, and maintenance of your router.



Image: The Zbtlink AX1800 4G LTE WiFi 6 Router, highlighting its ability to share fast 4G LTE networks.

2. WHAT'S IN THE BOX

Please verify that all components are present in your package:

- Zbtlink AX1800 4G LTE WiFi 6 Router
- Power adapter
- SIM card adapter kit
- 8P8C network cable (Ethernet cable)
- User Manual (this document)

3. PRODUCT OVERVIEW

Familiarize yourself with the various ports and indicators on your Zbtlink router.



Image: Rear view of the Zbtlink AX1800 router, displaying its multiple antennas and various ports.



Image: A detailed diagram illustrating the router's ports, including MESH button, LAN ports (LAN1, LAN2, LAN3), WAN port, RST (Reset) button, SIM card slot, DC power input, and detachable 4G antennas.

Key Components:

- **Antennas:** Four external detachable antennas for optimal Wi-Fi and 4G signal reception.
- **LAN Ports (LAN1, LAN2, LAN3):** Three Gigabit Ethernet ports for connecting wired devices like computers, gaming consoles, or smart TVs.
- **WAN Port:** One Gigabit Ethernet port for connecting to a traditional wired broadband modem.
- **SIM Card Slot:** Insert your 4G LTE SIM card here for cellular internet access.
- **RST Button:** Reset button to restore factory default settings.
- **MESH Button:** Used for setting up mesh networking with compatible Zbtlink routers.
- **DC Power Input:** Connect the provided power adapter here.

4. SETUP

4.1 Hardware Installation

1. **Insert SIM Card:** Carefully insert your activated 4G LTE SIM card into the SIM card slot until it clicks into place. Ensure the SIM card is correctly oriented as indicated on the router.
2. **Attach Antennas:** Screw the four detachable antennas onto their respective connectors on the router. Adjust their orientation for optimal signal reception.
3. **Connect Power:** Connect the provided power adapter to the DC Power Input port on the router and then plug it into a power outlet. The router will power on automatically.
4. **(Optional) Wired Broadband Connection:** If you are using wired broadband, connect an Ethernet cable from your modem to the WAN port on the router.
5. **(Optional) Connect Wired Devices:** Connect any wired devices (e.g., PC, gaming console) to the LAN ports using Ethernet cables.

4G LTE Router

Ideal for where wired broadband is unavailable.



Image: The Zbtlink 4G LTE Router positioned in a home environment, ideal for locations without wired broadband.

4.2 Initial Configuration (via Wi-Fi)

1. **Connect to Router's Wi-Fi:** On your computer or mobile device, search for available Wi-Fi networks. Connect to the default Wi-Fi network name (SSID) printed on the label at the bottom of your router. The default password will also be on this label.
2. **Access Router Management Page:** Open a web browser and enter the default IP address (e.g., 192.168.1.1) into the address bar. This IP address is also typically found on the router's label.
3. **Login:** Enter the default username and password (usually 'admin' for both, or as specified on the label).
4. **Configure Internet Access:** Follow the on-screen wizard or navigate to the 'Internet Settings' or 'WAN Settings' section.
 - **For 4G LTE:** Select 4G/LTE mode. You may need to enter the APN (Access Point Name) provided by your SIM card carrier.
 - **For Wired Broadband:** Select DHCP, Static IP, or PPPoE based on your ISP's requirements.
5. **Change Wi-Fi Name and Password:** For security, it is highly recommended to change the default Wi-Fi network name (SSID) and password in the 'Wireless Settings' section.

6. **Save Settings:** Apply and save all changes. The router may restart.

5. OPERATING YOUR ROUTER

5.1 Wi-Fi 6 Technology

The Zbtlink AX1800 router utilizes dual-band Wi-Fi 6 (802.11ax) technology, offering significantly faster speeds and improved efficiency compared to older Wi-Fi standards. It provides up to 1200Mbps on the 5GHz band and 574Mbps on the 2.4GHz band, totaling 1800Mbps.



Image: A visual representation of the router's dual-band Wi-Fi 6 capabilities, showing 1200Mbps on 5GHz and 574Mbps on 2.4GHz for faster online activities.



Image: A chart comparing Wi-Fi 6 (AX1800) speed increase (83%) over Wi-Fi 5 (AC1200) and Wi-Fi 4 (N300), highlighting MU-MIMO and OFDMA benefits.

5.2 Connecting Multiple Devices

With Wi-Fi 6, the router supports stable connections for up to 64 devices simultaneously. Features like 4x4 MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) and OFDMA (Orthogonal Frequency-Division Multiple Access) ensure efficient data transmission and reduced congestion, providing a smoother internet experience for all connected users.

Connect More Devices

Stable and smooth connection of 64 devices with 4X4 MU-MIMO and OFDMA.



Image: The router shown connecting to various devices such as laptops, tablets, and gaming consoles, illustrating its capacity for multiple stable connections.

5.3 Mesh Networking

The Zbtlink AX1800 router supports mesh networking, allowing you to combine multiple compatible routers to create a seamless, whole-home Wi-Fi system. This extends coverage and eliminates Wi-Fi dead zones.

MESH

Create Mesh WiFi system with multiple routers to enable WIFI coverage throughout the home.



Image: A diagram illustrating how multiple Zbtlink routers can form a mesh Wi-Fi system to provide comprehensive coverage throughout a home.



Image: A visual representation of a mesh network extending Wi-Fi coverage across multiple floors of a building.

6. USING THE ZBTLINK APP

The Zbtlink APP provides a convenient way to manage your router settings from your mobile device. Follow the instructions in the video below to download and use the app.

Video: This video demonstrates how to download the Zbtlink APP, connect to the device's Wi-Fi, log in to the app using the default password 'admin', and configure internet access settings, including filling in the APN for 4G priority.

7. MAINTENANCE

- **Regular Restart:** Periodically restarting your router (unplugging and replugging after 30 seconds) can help resolve minor performance issues and refresh network connections.
- **Firmware Updates:** Check the Zbtlink official website or the router's management page for available firmware updates. Keeping your firmware up-to-date ensures optimal performance, security, and access to new features.
- **Cleanliness:** Keep the router in a clean, dust-free environment. Ensure ventilation holes are not obstructed to prevent overheating.
- **Secure Placement:** Place the router in a central location, away from large metal objects, thick walls, and other electronic devices that may cause interference.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet access (4G LTE)	SIM card not activated, incorrect APN settings, weak 4G signal.	Ensure SIM card is active. Verify APN settings with your carrier. Relocate router for better signal.
No Internet access (Wired)	Ethernet cable loose, modem issue, incorrect WAN settings.	Check Ethernet cable connection. Restart modem. Verify WAN settings (DHCP, Static IP, PPPoE).
Cannot connect to Wi-Fi	Incorrect Wi-Fi password, Wi-Fi disabled, router too far.	Double-check password. Ensure Wi-Fi is enabled in settings. Move closer to router.
Slow Wi-Fi speed	Interference, too many devices, outdated firmware.	Change Wi-Fi channel. Limit connected devices. Update router firmware.
Cannot access router management page	Incorrect IP address, network connection issue.	Verify router's IP address. Ensure device is connected to router's network. Try a different browser.
Forgot login password	Password lost.	Perform a factory reset using the RST button (this will erase all custom settings).

9. SPECIFICATIONS

Feature	Detail
Model Name	Z2101AX-PCIE-T+EC25
Wi-Fi Standard	802.11ax (Wi-Fi 6)

Feature	Detail
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Wireless Speed	Up to 1800Mbps (574Mbps at 2.4GHz, 1200Mbps at 5GHz)
Ethernet Ports	1 Gigabit WAN, 3 Gigabit LAN
4G LTE Support	Yes, with SIM card slot (download speeds up to 150 Mbps)
Special Features	4G router with SIM card slot, MESH, PPTP L2TP DDNS, WiFi 6
Dimensions	6.3 x 3.66 x 1.26 inches
Item Weight	1.81 pounds
Compatible Devices	Gaming Console, Personal Computer, Printer, Security Camera, Tablet

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Zbtlink website. Contact details for customer service are typically available on the manufacturer's support page. You can also visit the [Zbtlink Store on Amazon](#) for more product information and support resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question