

Speedefy KX450

Speedefy AX1800 WiFi 6 Router (Model KX450) Instruction Manual

Brand: Speedefy | Model: KX450

1. INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, and maintaining your Speedefy AX1800 WiFi 6 Router (Model KX450). Please read this guide thoroughly to ensure optimal performance and secure network usage.

The Speedefy AX1800 WiFi 6 Router is designed to deliver high-speed, reliable wireless connectivity for your home or small office environment. Featuring WiFi 6 technology, a powerful 1.5GHz Quad-Core CPU, and advanced security protocols, it supports multiple devices for seamless internet, gaming, and video streaming.

Video: Speedefy WiFi 6 Router KX450 Overview. This video provides a brief introduction to the Speedefy KX450 WiFi 6 router, highlighting its key features and design.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Speedefy AX1800 WiFi 6 Router (Model KX450)
- Ethernet Cable
- Power Adapter
- Quick Installation Guide



Image: The Speedefy AX1800 WiFi 6 Router shown with its included accessories: power adapter, Ethernet cable, and quick installation guide.

3. SETUP

3.1. Hardware Connection

1. **Power Off Modem:** Unplug the power from your existing modem.
2. **Connect Ethernet Cable:** Connect one end of the provided Ethernet cable to the WAN port (blue) on the back of the Speedefy router. Connect the other end to your modem's Ethernet port.
3. **Connect Power Adapter:** Plug the power adapter into the router's power input and then into a wall outlet.
4. **Power On:** Power on your modem first, then power on the Speedefy router. Wait for the indicator lights to stabilize.

Gigabit Transmission

High-speed experience with 4 Gigabit Ethernet ports.



Image: The rear panel of the Speedefy AX1800 WiFi 6 Router, highlighting the blue WAN port for internet connection and four yellow Gigabit LAN ports for wired devices.

3.2. Network Configuration

You can configure your router using either the Speedefy App or a web browser.

Method 1: Using the Speedefy App

1. **Download App:** Download the 'Speedy WiFi' app from your mobile device's app store (available for Android and iOS).
2. **Launch App:** Open the app and follow the on-screen instructions to set up your router. This typically involves creating a TP-Link ID or logging in, then adding your new router.
3. **Connect to Internet:** The app will guide you through connecting your router to the internet and setting up your Wi-Fi network name (SSID) and password.



Image: Screenshots of the Speedy WiFi app interface on a smartphone and tablet, demonstrating the ease of managing router settings.

Method 2: Using a Web Browser

1. **Connect Device:** Connect your computer or mobile device to the router wirelessly (using the default Wi-Fi name and password printed on the router's label) or via an Ethernet cable to one of the LAN ports.
2. **Access Web Interface:** Open a web browser and enter `http://tplinkwifi.net` or `http://192.168.0.1` in the address bar.
3. **Login:** Create a new password to log in. Follow the step-by-step instructions to set up your internet connection and register for the TP-Link Cloud service.

4. KEY FEATURES

4.1. WiFi 6 Technology (AX1800)

Experience the next generation of wireless connectivity with AX1800 dual-band WiFi 6. This technology delivers speeds up to 1.8 Gbps (1201 Mbps on 5 GHz and 574 Mbps on 2.4 GHz), ensuring smooth and stable performance for all your online activities, including internet browsing, gaming, and 4K video streaming.

Speedefy

The Next Generation

WiFi 6

AX1800 WiFi 6 Dual-Band Router



Image: The Speedefy AX1800 WiFi 6 Router showcasing its next-gen WiFi 6 speeds of 1.8 Gbps and four high-gain antennas.

4.2. Powerful 1.5GHz Quad-Core CPU

Equipped with a 1.5GHz quad-core Broadcom CPU, the router provides extraordinary processing power to handle multiple high-bandwidth tasks simultaneously without lag. This ensures a stable and responsive network experience.



Wi-Fi Signal Goes Further

4 high-performance antennas with beamforming and BSS Color technology, deliver strong WiFi signal throughout your home.

Image: An internal diagram illustrating the 1.5GHz Quad-Core Broadcom CPU and its connection to four powerful amplifiers (PA+LNA) for enhanced WiFi coverage.

4.3. MU-MIMO and OFDMA Technology

OFDMA and MU-MIMO technologies significantly reduce latency and increase network capacity. This allows the router to communicate with multiple devices simultaneously, providing a smoother experience even when up to 40 devices are connected.

Larger Capacity Higher Efficiency

Connect 40+ devices with OFDMA and MU-MIMO technology, allowing you to connect all your streaming, gaming, and WiFi-enabled devices.



Image: A visual representation of the router's wide coverage, extending up to 2500 sq ft and supporting up to 40 devices simultaneously.

4.4. Enhanced Security with WPA3 and VPN

The router supports WPA3 encryption, the latest standard for Wi-Fi security, providing stronger protection for your network. It also includes VPN support, a firewall, and Guest WiFi options to safeguard your network, connected devices, and smart home access.



Image: A collage illustrating the router's advanced security features, including WPA3 support, parental controls, and guest WiFi functionality.

4.5. Parental Control and IPv6 Support

Manage internet access for your family with parental control features, allowing you to set schedules and restrict content. The router also supports IPv6, ensuring compatibility with the latest internet protocols.

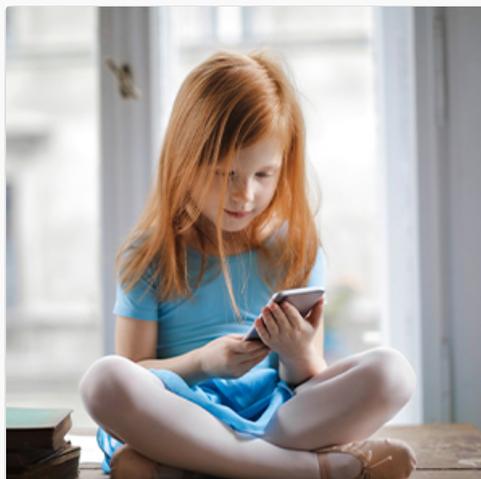


Image: A child using a smartphone, symbolizing the router's parental control features for managing internet access.

5. OPERATING INSTRUCTIONS

5.1. Connecting Devices

- **Wireless Connection:** Search for your Wi-Fi network name (SSID) on your device and enter the password you set during setup.
- **Wired Connection:** Connect devices like computers, gaming consoles, or smart TVs to the yellow LAN ports on the back of the router using Ethernet cables.

5.2. Managing Settings via App/Web Interface

The Speedy WiFi app and the web interface provide comprehensive control over your router's settings:

- **Internet Settings:** Configure WAN connection type, DNS settings, etc.
- **Wi-Fi Settings:** Change SSID, password, security type, and enable/disable Wi-Fi bands.
- **Guest Network:** Create a separate Wi-Fi network for guests to isolate them from your main network.
- **Parental Control:** Set internet access schedules, block websites, and manage device usage.
- **VPN:** Configure VPN client or server settings for secure remote access or privacy.
- **System Tools:** Access features like system update, LED control, and reset options.

6. MAINTENANCE

6.1. Firmware Updates

Regularly check for and install firmware updates through the Speedy WiFi app or the web interface. Firmware updates provide new features, performance improvements, and security enhancements.

6.2. Rebooting the Router

If you experience network issues, a simple reboot can often resolve them. You can reboot the router via the app/web interface or by unplugging the power adapter for 10 seconds and then plugging it back in.

6.3. Factory Reset

If you encounter persistent problems, you may need to perform a factory reset. Locate the reset button (usually a small pinhole) on the back of the router. With the router powered on, use a paperclip to press and hold the reset button for approximately 10 seconds until the LED lights flash. The router will then restart with factory default settings.

7. TROUBLESHOOTING

- **No Internet Access:**

- Check all cable connections between the modem and router.
- Ensure your modem is working correctly.
- Reboot both your modem and router.

- **Weak Wi-Fi Signal:**

- Relocate the router to a central location, away from obstructions and interference sources.
- Adjust the antennas for optimal signal direction.
- Consider adding a Wi-Fi extender if coverage is still insufficient.

- **Cannot Access Router Settings:**

- Ensure your device is connected to the router's Wi-Fi or via Ethernet.
- Verify the IP address or domain name (<http://tplinkwifi.net>) is entered correctly in the browser.
- Clear your browser's cache or try a different browser.

8. SPECIFICATIONS

Feature	Detail
Wireless Standard	802.11ac, 802.11ax, 802.11n (WiFi 6)
Wireless Speed	AX1800 (up to 1.8 Gbps)
Frequency Band	Dual-Band (2.4 GHz & 5 GHz)
CPU	1.5GHz Quad-Core Broadcom CPU
Antennas	4 High-Gain Antennas
Ethernet Ports	1x Gigabit WAN, 4x Gigabit LAN
USB Port	Yes
Wireless Security	WPA3, WPA2, WPA
Dimensions (LxWxH)	12.09 x 11.73 x 2.87 inches
Item Weight	1.78 pounds
Operating System Support	Android, iOS

9. WARRANTY AND SUPPORT

For warranty information, technical support, or product-related assistance, please refer to the official Speedefy website or contact their customer service directly. Details can typically be found in the Quick Installation Guide

or on the product packaging.

Online resources, including FAQs and updated firmware, are often available on the Speedefy support page.