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X-Link LCM4121S

X-Link AX3000 Dual Band Wi-Fi 6 Router User Manual

Model: LCM4121S

INTRODUCTION

The X-Link AX3000 Dual Band Wi-Fi 6 Router is designed to provide high-speed, stable, and extensive wireless connectivity for your home or office. Featuring Wi-Fi 6 (802.11ax) technology, it offers dual-band speeds up to 2976Mbps (574Mbps at 2.4GHz and 2402Mbps at 5GHz), supporting up to 128 devices simultaneously. This router is also mesh-compatible, allowing for seamless whole-home Wi-Fi coverage. This manual will guide you through the installation, configuration, and maintenance of your device.

SAFETY INFORMATION

- Use only the power adapter provided with the device.
- Do not expose the device to water, fire, humidity, or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact customer support.
- Place the device in a well-ventilated area, away from direct sunlight and heat sources.
- Keep the device away from strong electromagnetic interference.

PACKAGE CONTENTS

Verify that all items are present in your package:

- X-Link AX3000 Dual Band Wi-Fi 6 Router (LCM4121S)
- Power Adapter
- Ethernet Cable

PRODUCT OVERVIEW

Front Panel



This image shows the front of the X-Link AX3000 Wi-Fi 6 Router, highlighting its sleek white design and the indicator lights panel at the bottom. The lights indicate the status of 5GHz Wi-Fi, 2.4GHz Wi-Fi, power, and network activity.

The front panel features LED indicators that provide real-time status of the router's operation:

- **5G LED:** Indicates the status of the 5GHz Wi-Fi band.
- **2.4G LED:** Indicates the status of the 2.4GHz Wi-Fi band.
- **Power LED:** Indicates the power status of the device.
- **Internet LED:** Indicates the status of the internet connection.
- **LAN LEDs:** Indicate activity on the wired LAN ports.

Rear Panel



This image displays the rear panel of the X-Link AX3000 Wi-Fi 6 Router, showing the two Gigabit Ethernet ports (yellow), a reset button, and the power input port.

The rear panel provides all necessary physical connections:

- **WAN/LAN Gigabit Port:** Configurable port for either WAN (Internet) or LAN connection.
- **LAN Gigabit Port:** For connecting wired devices.
- **Reset Button:** Used to restore factory default settings.
- **Power Input:** Connects to the provided power adapter.

Dimensions



This diagram illustrates the physical dimensions of the X-Link AX3000 Wi-Fi 6 Router, showing its height of 228mm, width of 173mm, and depth of 71mm.

The router has the following approximate dimensions:

- **Height:** 228 mm
- **Width:** 173 mm
- **Depth:** 71 mm

SETUP GUIDE

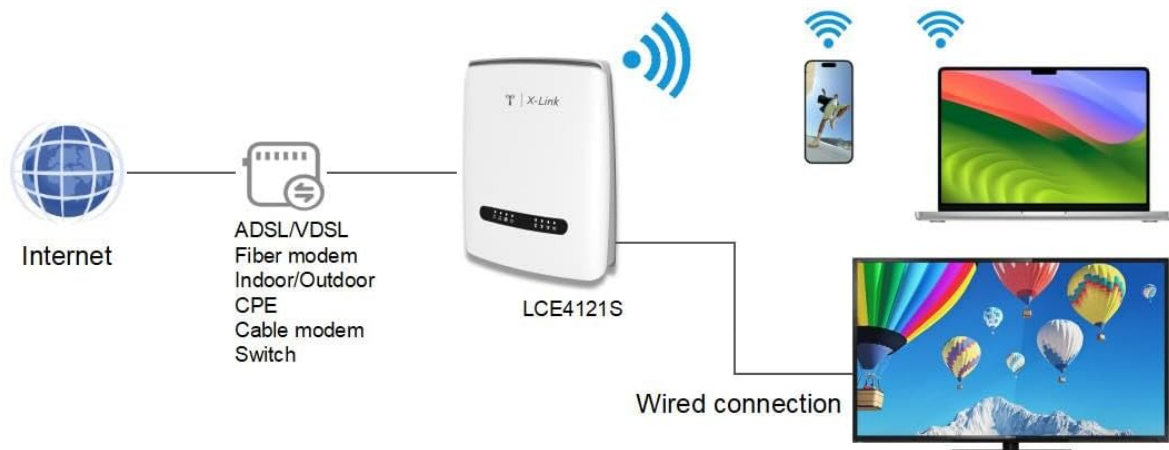
Initial Connection

1. **Power On:** Connect the provided power adapter to the router's power input port and plug it into a power outlet.
2. **Connect to Internet:** Connect your modem's Ethernet cable to the WAN/LAN Gigabit port on the router.
3. **Connect Device:** Connect your computer to one of the router's LAN ports using an Ethernet cable, or connect wirelessly to the default Wi-Fi network (SSID and password are on the device label).

Router/AP Mode Configuration

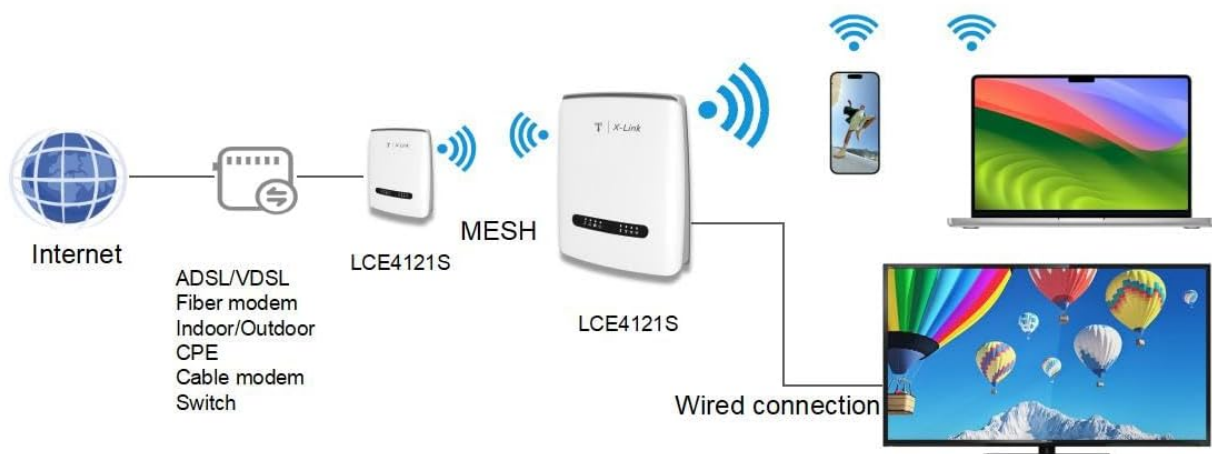
Router/AP Mode

Perfectly converting your wired network into wireless.



Mesh Mode

Wi-Fi experience with one WiFi name at whole home and seamless roaming.



This diagram illustrates the X-Link router operating in Router/AP Mode, converting a wired network connection from an internet source (modem/switch) into a wireless network for devices like laptops and smart TVs.

To set up the LCM4121S as a standalone router (not in Mesh mode):

1. Connect your computer to the LAN1 port using an Ethernet cable.
2. Open a web browser and enter 'http://192.168.1.1' in the address bar.
3. Log in using the credentials found on the device label.
4. Navigate to **Settings > Ethernet > Ethernet Settings**
5. Select "Dynamic IP" as the connection mode.
6. Click "Submit" and wait for the confirmation message "Configuration Successful".

Mesh Mode Configuration



Next Generation WIFI AX3000 WIFI 6

Amazing speeds up to 3Gbps
Enjoy a better 8k/4K/FHD videos,
Gaming, and Internet.



2402Mbps
574Mbps

This diagram illustrates a Mesh Mode setup where multiple X-Link routers (LCE4121S and LCE4121M) create a unified Wi-Fi network, extending coverage seamlessly throughout a home from a single internet source.










The X-Link Mesh Router (LCM4121S) supports mesh-linking with other compatible devices like LCE4121S or LCE4121M routers to create a unified Wi-Fi network with a single Wi-Fi name and seamless roaming. Refer to the specific mesh setup instructions provided with your mesh-compatible devices for detailed pairing procedures.

OPERATING INSTRUCTIONS

Wi-Fi Connectivity

Once the router is set up, you can connect your wireless devices (smartphones, tablets, laptops, etc.) to the Wi-Fi network. The default Wi-Fi network name (SSID) and password are printed on a label on the bottom or back of your router. You can change these settings through the router's web interface.

Advanced Features

 AX3000 WiFi 6 2x2 MIMO Support dual bands:2.4GHz&5GHz	 Easy Mesh Easily extend WIFI signal to cover whole home	 Connect up to 128 users
 Qualcomm Dual-Core Processor Fast Data processing		 OFDMA MU-MIMO BSS Coloring 160MHz Bandwidth 1024 QAM Connect more, less waiting Anti-interference from neighbors Wider Bandwidth and higher speed
 WPA3 Secure network from cracking Secure your wifi network	 IPV6 Lower Latency, Flexible network	 2xGigabit Ports 1 xLAN 10/100/1000M Ethernet port 1 xLAN/WAN 10/100/1000M Ethernet port

This infographic highlights key features of the X-Link AX3000 Wi-Fi 6 Router, including AX3000 Wi-Fi 6 with 2x2 MIMO, Easy Mesh support, connectivity for up to 128 users, Qualcomm Dual-Core Processor, OFDMA, MU-MIMO, 160MHz Bandwidth,

The X-Link AX3000 router incorporates several advanced technologies to enhance your network experience:

- **Wi-Fi 6 (802.11ax):** Provides higher speeds, lower latency, and increased capacity compared to previous Wi-Fi standards.
- **Dual-Band:** Operates on both 2.4GHz and 5GHz frequencies for flexible connectivity.
- **Mesh Support:** Allows for seamless whole-home Wi-Fi coverage when paired with compatible X-Link mesh devices.
- **WPA3 Security:** Offers enhanced encryption and protection for your home network.
- **OFDMA & MU-MIMO:** Improve efficiency and performance in multi-device environments.
- **160MHz Bandwidth:** Enables faster data transfer speeds for compatible devices.
- **Gigabit Ethernet Ports:** Ensures high-speed wired connections for devices like gaming consoles and PCs.

MAINTENANCE

- **Firmware Updates:** Regularly check the X-Link official website for firmware updates to ensure optimal performance and security.
- **Proper Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference.
- **Cleaning:** Use a soft, dry cloth to clean the router. Do not use liquid or aerosol cleaners.
- **Restarting:** If you experience network issues, try restarting the router by unplugging the power adapter for 10 seconds and then plugging it back in.

TROUBLESHOOTING

Issue	Possible Solution
No Internet Connection	<ul style="list-style-type: none">• Check if the modem is working correctly.• Ensure the Ethernet cable from the modem is securely connected to the router's WAN/LAN port.• Restart both the modem and the router.• Verify your internet settings in the router's web interface.
Slow Wi-Fi Speed	<ul style="list-style-type: none">• Move closer to the router or reduce obstacles.• Ensure your devices support Wi-Fi 6 for optimal performance.• Check for interference from other electronic devices.• Limit the number of connected devices or bandwidth-intensive activities.
Cannot Access Router Settings Page	<ul style="list-style-type: none">• Ensure your device is connected to the router's network (wired or wireless).• Verify you are entering the correct IP address (http://192.168.1.1) in your browser.• Clear your browser's cache and cookies.• Try a different web browser.

SPECIFICATIONS

Feature	Detail
Model Number	LCM4121S
Wireless Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Max Wireless Speed	Up to 2976Mbps (574Mbps on 2.4GHz, 2402Mbps on 5GHz)
Ethernet Ports	2 x Gigabit Ethernet Ports (1 WAN/LAN, 1 LAN)
Security Protocols	WPA3
Special Features	Mesh Support, OFDMA, MU-MIMO, 160MHz Bandwidth, Internet Security, Parental Control
Item Weight	1.81 pounds
Package Dimensions	11.73 x 7.91 x 3.11 inches

WARRANTY AND SUPPORT

X-Link products are designed with quality and reliability in mind. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official X-Link website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any inquiries regarding your X-Link AX3000 Dual Band Wi-Fi 6 Router, please contact X-Link customer support through their official website or the contact information provided with your purchase.