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› [AX3000 Dual Band Wi-Fi 6 Router, Mesh Wi-Fi Router, 802.11ax Internet Router, 2 Gigabit Ports 160MHz, MU-MIMO, OFDMA, WPA3\(Gray\)](#)

X-Link LCM4121S

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

Model: LCM4121S

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your X-Link AX3000 Dual Band Wi-Fi 6 Router. Designed for modern connectivity, this router offers high-speed wireless transmission and extensive coverage for multiple devices.

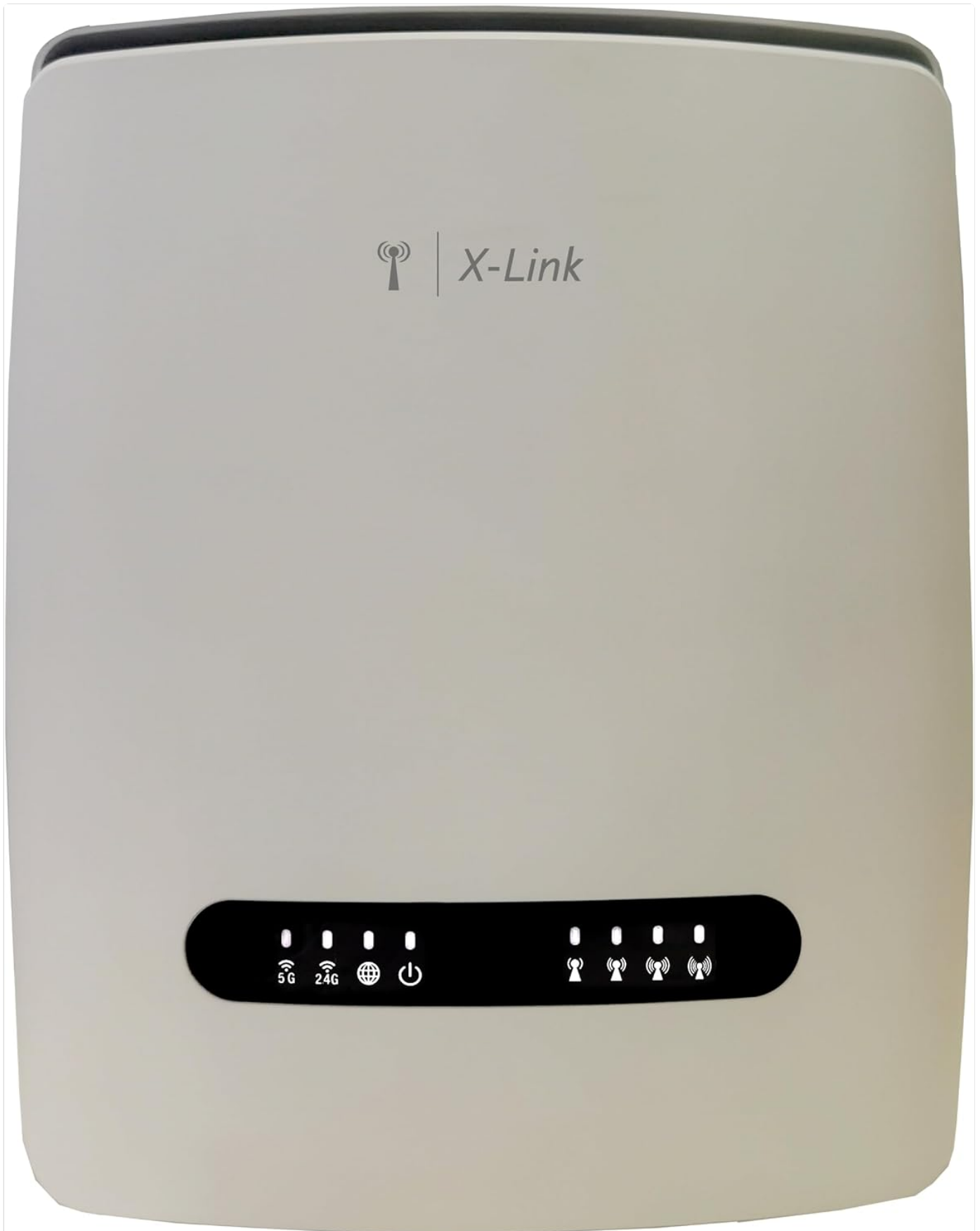


Figure 1: Front view of the X-Link AX3000 Dual Band Wi-Fi 6 Router, showing indicator lights for 5G, 2.4G, power, and network activity.

2. PRODUCT OVERVIEW

Key Features:

- **WiFi 6 AX3000 Dual Band:** Delivers up to 2976Mbps combined wireless transmission speeds (574Mbps at 2.4GHz, 2402Mbps at 5GHz) for stable and fast internet.

- **Extensive Coverage:** Provides coverage up to 1500 sq.ft, supporting up to 128 devices simultaneously.
- **Mesh Support:** Seamlessly mesh-links with compatible X-Link devices (e.g., LCE4121S, LCE4121M) for a unified WiFi experience and seamless roaming throughout your home.
- **Gigabit Ethernet Ports:** Equipped with 10/100/1000Mbps WAN/LAN Gigabit ports for high-speed wired connections.
- **Advanced Network Enhancement:** Supports WPA3 for enhanced security, OFDMA, MU-MIMO, and 160MHz bandwidth for reliable, high-performance, and low-latency experiences.

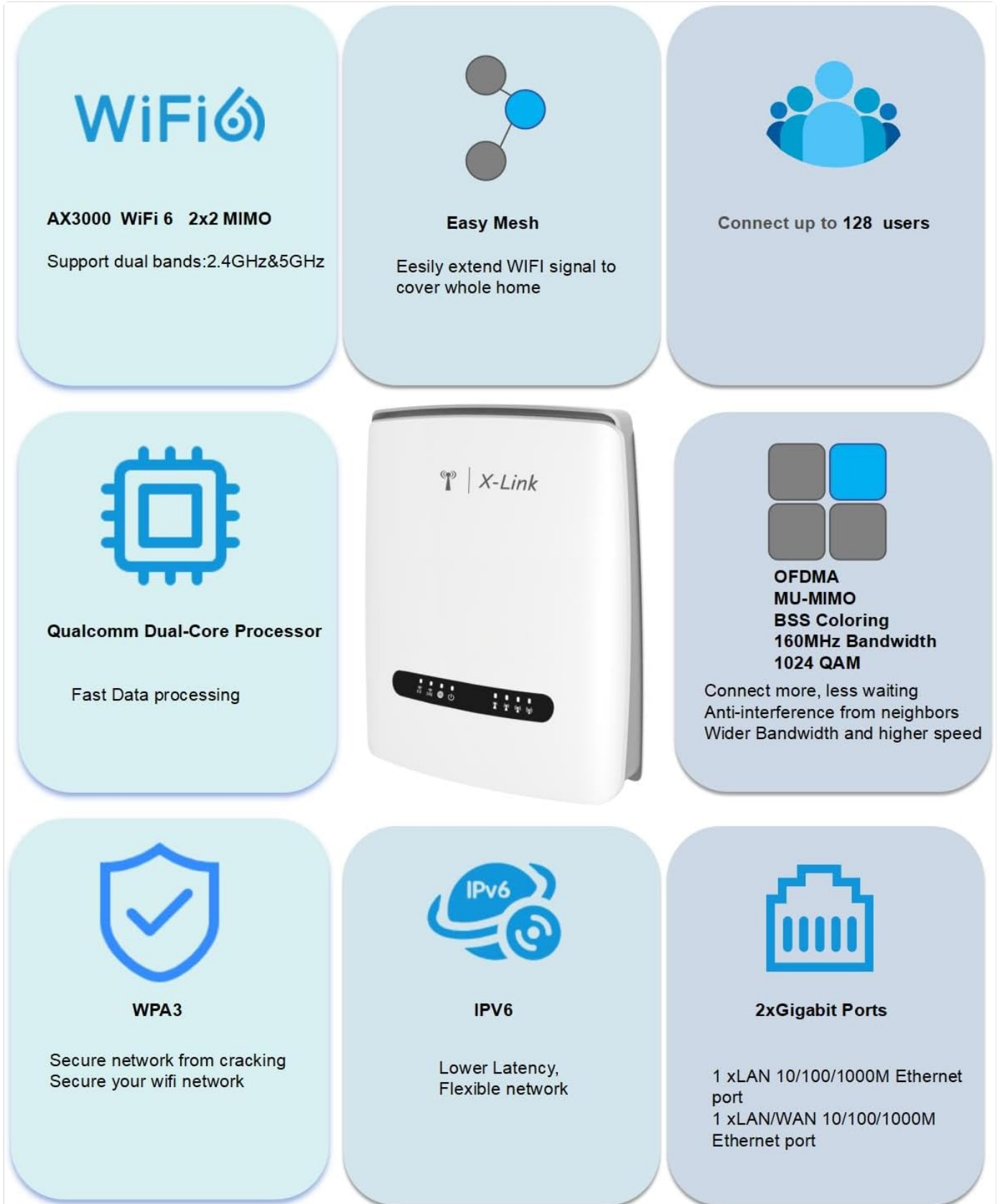


Figure 2: Infographic highlighting key features such as WiFi 6, Easy Mesh, 128 user support, Qualcomm Dual-Core Processor, OFDMA, MU-MIMO, WPA3, IPv6,

3. SETUP GUIDE

Initial Router Setup (LCM4121S as Router, not Mesh):

1. **Step 1: Connect Hardware.** Connect your computer to the LAN1 port of the router using an Ethernet cable. Ensure the router is powered on and connected to your internet modem via the WAN port.
2. **Step 2: Access Web Interface.** Open a web browser (e.g., Chrome, Firefox, Edge) on your connected computer and enter "http://192.168.1.1" in the address bar. Press Enter.
3. **Step 3: Log In.** You will be prompted for login credentials. Enter the username and password found on the device label, typically located on the bottom or back of your router.
4. **Step 4: Navigate to Network Settings.** Once logged in, navigate to the "Settings" menu, then select "Ethernet," and finally "Ethernet Settings."
5. **Step 5: Configure Connection Mode.** Select "Dynamic IP" as the connection mode. This is the most common setting for home internet connections.
6. **Step 6: Apply Settings.** Click "Submit" to save your configuration. Wait for the confirmation message "Configuration Successful." Your router should now be connected to the internet.

Mesh Network Setup:

The X-Link Mesh Router (LCE4121S) can seamlessly mesh-link with other compatible devices like LCE4121S or LCE4121M routers to create a unified WiFi network with a single WiFi name and seamless roaming.

**Next Generation WiFi
AX3000 WiFi 6**

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

2402Mbps

574Mbps

X-Link

Figure 3: Illustration of a Mesh Mode network, where multiple X-Link routers (LCE4121S) work together to provide seamless Wi-Fi coverage throughout a home. For detailed mesh setup instructions, refer to the X-Link Mesh App or the dedicated mesh setup guide available on the X-Link support website. Typically, one router acts as the main router connected to the internet, and others are added as satellites to extend coverage.

4. OPERATING INSTRUCTIONS

Router/AP Mode Operation:

In Router/AP mode, the X-Link AX3000 converts your wired internet connection into a wireless network, allowing multiple devices to connect wirelessly. It acts as the central point for your home network.

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.

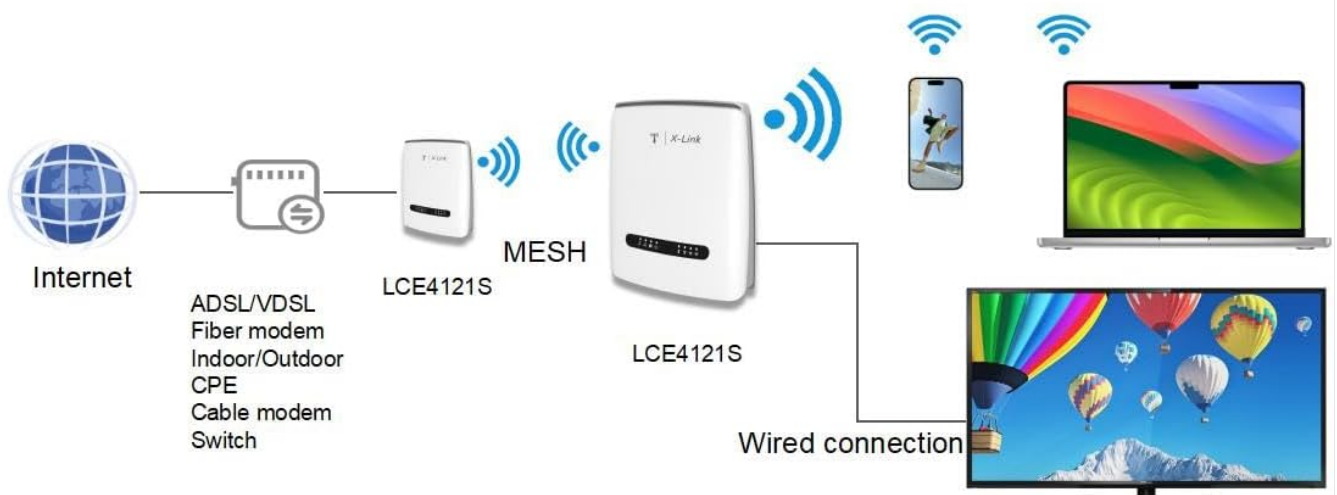


Figure 4: Diagram illustrating the router operating in Router/AP mode, connecting to the internet and providing both wired and wireless connectivity to devices.

Mesh Mode Operation:

When operating in Mesh Mode, multiple X-Link routers create a single, unified Wi-Fi network. This eliminates Wi-Fi dead zones and provides seamless roaming as you move throughout your home, ensuring a consistent and strong signal.



Figure 5: Visual representation of a home covered by a mesh Wi-Fi system, highlighting 360-degree Wi-Fi coverage, seamless roaming, and a single Wi-Fi name.

Advanced Features:

- **Parental Control:** Manage internet access for specific devices or users.
- **Internet Security:** WPA3 encryption provides enhanced security for your home network.
- **Guest Network:** Create a separate Wi-Fi network for guests, keeping your main network secure.
- **QoS (Quality of Service):** Prioritize network traffic for specific applications or devices (e.g., gaming, streaming).

Access and configure these features through the router's web interface (<http://192.168.1.1>) or the dedicated X-Link mobile application, if available.

5. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates from the X-Link support website. Updates often include performance improvements, security patches, and new features.
- **Physical Cleaning:** Keep the router in a clean, dust-free environment. Gently wipe the exterior with a soft, dry cloth. Do not use liquid cleaners.
- **Optimal Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference.
- **Rebooting:** Periodically rebooting your router (unplugging it for 10-15 seconds and plugging it back in) can help resolve minor connectivity issues and improve performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet Connection	Incorrect setup, modem issue, cable disconnected.	Verify all cables are securely connected. Reboot your modem and router. Check router settings (Dynamic IP, etc.) via web interface. Contact your Internet Service Provider (ISP).
Slow Wi-Fi Speed	Interference, too many devices, outdated firmware, poor placement.	Move router to a central location. Reduce number of connected devices if possible. Update router firmware. Check for interfering devices (cordless phones, microwaves).
Cannot Access Router Web Interface	Incorrect IP address, network configuration issue, firewall.	Ensure your computer is connected to the router via Ethernet or Wi-Fi. Verify you are typing "http://192.168.1.1" correctly. Temporarily disable computer firewall. Try a different web browser.
Wi-Fi Signal Drops Frequently	Interference, range issues, channel congestion.	Change Wi-Fi channel in router settings. Consider adding a mesh satellite unit for extended coverage. Ensure router is not near large metal objects or thick walls.

7. SPECIFICATIONS



Figure 6: Top, front, side, and bottom views of the X-Link AX3000 Router, showing its dimensions (228mm height, 173mm width, 71mm depth) and port configuration.

Feature	Detail
Model Number	LCM4121S
Wireless Standard	802.11ax (Wi-Fi 6), 802.11ac, 802.11a/b/g/n
Frequency Band	Dual-Band (2.4 GHz & 5 GHz)
Max Wireless Speed	Up to 2976 Mbps (574Mbps @ 2.4GHz, 2402Mbps @ 5GHz)
Ethernet Ports	2 x Gigabit (10/100/1000Mbps) WAN/LAN configurable
Security Protocols	WPA3
Special Features	Mesh Support, OFDMA, MU-MIMO, 160MHz Bandwidth, Parental Control, Internet Security
Coverage Area	Up to 1500 sq.ft
Max Connected Devices	Up to 128 devices
Dimensions (L x W x H)	11.81 x 7.99 x 3.11 inches (Package)
Item Weight	1.81 pounds
Included Components	Power Adapter, Ethernet Cable

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product packaging or visit the official X-Link website. X-Link provides customer support for product inquiries, technical assistance, and troubleshooting.

Online Support: Visit the X-Link official website for FAQs, driver downloads, firmware updates, and additional support resources.

Contact Support: Refer to the contact information provided on the X-Link website or your product packaging for direct customer service.

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Product specifications are subject to change without notice.