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› keepLiNK KP-9000-9XHML-X 8-Port 2.5G Web Managed Ethernet Switch User Manual

keepLiNK KP-9000-9XHML-X

keepLiNK KP-9000-9XHML-X 8-Port 2.5G Web Managed Ethernet Switch User Manual

Model: KP-9000-9XHML-X | Brand: keepLiNK

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1. PRODUCT OVERVIEW

The keepLiNK KP-9000-9XHML-X is a high-performance 8-port 2.5G Web Managed Ethernet Switch designed to expand your network bandwidth and reduce traffic bottlenecks. It features eight 2.5GBASE-T Ethernet ports and one 10G SFP+ slot, offering versatile connectivity for various network devices.

This intelligent web-managed switch provides essential management functions, including device/port status queries and configurations for VLAN, QoS, Multicast, MAC, and Static Link Aggregation, all accessible via a user-friendly web interface.



Figure 1: Front view of the keepLiNK KP-9000-9XHML-X switch, showcasing its compact design and port layout.

2. SETUP GUIDE

2.1 Package Contents

Before you begin, ensure all items are present in the package:

- keepLiNK 2.5G Web Managed Switch (KP-9000-9XHML-X)
- Power Adapter
- User Manual (this document)

2.2 Physical Installation

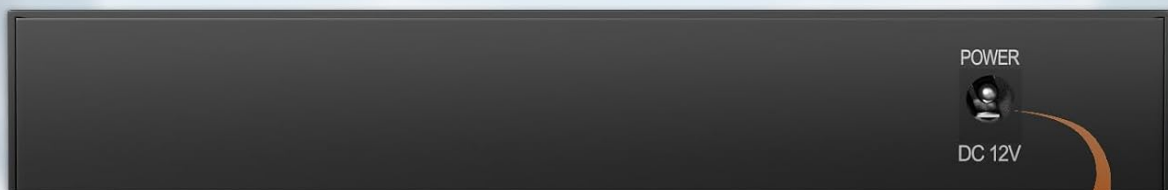
The switch supports both desktop placement and wall mounting.

1. **Power Connection:** Connect the provided power adapter to the DC Input Port (12V 1.5A) on the rear panel of the switch and then plug it into a power outlet.
2. **Network Connections:**
 - Connect your network devices (computers, NAS, Wi-Fi 6 APs, servers) to the 8 x 2.5G RJ45 ports (L1-L8) using Cat6 or higher Ethernet cables for optimal performance.
 - For high-speed uplink or backbone connections, insert a compatible 10G SFP+ module (not included) into the 10G SFP slot (Port 9) and connect it to your network infrastructure. This slot also supports 1G/2.5G modules.

8 Ports 2.5Gb Smart Web Switch with 10 Gb SFP Slot



Reset Press and Hold for 6 seconds to restore factory settings



DC Input Port (12V 1.5A)

Figure 2: Detailed view of the switch's front panel showing 2.5G RJ45 ports (L1-L8) and the 10G SFP+ slot (Port 9), along with the rear panel showing the DC power input.

Desktop/Wall Mounting



Quiet work



Fanless cooling



6KV Lightning
protection



Figure 3: Illustration of the switch's compact dimensions and options for desktop placement or wall mounting using the integrated mounting holes.

2.3 Initial Web Interface Access

To configure the switch, access its web-based management interface:

1. Ensure your computer is connected to one of the switch's RJ45 ports.
2. Set your computer's IP address to be in the same subnet as the switch's default IP. For example, if the switch's default IP is 192.168.2.1, set your computer's IP to 192.168.2.X (where X is not 1) with a subnet mask of 255.255.255.0.
3. Open a web browser and enter the default IP address of the switch: <http://192.168.2.1>.
4. When prompted, enter the default login credentials:
 - **User Name:** admin
 - **Password:** admin
5. Upon successful login, you will be directed to the switch's management dashboard. It is highly recommended to

change the default password immediately for security reasons.

Easy-to-Use Web-Based Management Interface

Supports QOS, IGMP Snooping, VLAN 802.3ab
Static link aggregation

Default IP: 192.168.2.1
User Name: admin
Password: admin



Figure 4: Screenshot illustrating the easy-to-use web-based management interface and default login credentials.

3. OPERATION AND CONFIGURATION

The keepLiNK KP-9000-9XHML-X offers a range of Layer 2 management features accessible through its web interface.

3.1 Key Features and Configuration

- **VLAN (Virtual Local Area Network):** Configure VLANs to segment your network, improving security and performance by isolating traffic. The switch supports IEEE 802.1Q VLANs.
- **QoS (Quality of Service):** Prioritize network traffic to ensure critical applications (e.g., VoIP, video streaming) receive sufficient bandwidth, reducing latency and jitter.
- **Multicast (IGMP Snooping):** Optimize multicast traffic delivery by preventing it from flooding all ports, which is

beneficial for applications like IPTV.

- **MAC Address Management:** View and manage MAC address tables for connected devices.
- **Static Link Aggregation (802.3ad):** Combine multiple physical Ethernet links into a single logical link to increase bandwidth and provide redundancy.
Note: This switch supports Static Link Aggregation only. Dynamic Link Aggregation (LACP) is not supported.
- **Jumbo Frame Support:** Supports 16KB Jumbo Frames, which can improve throughput for large data transfers by allowing larger Ethernet frames.
- **Loop Prevention:** Features like Spanning Tree Protocol (STP) help prevent network loops that can cause broadcast storms and network instability.
- **Bandwidth Control:** Manage bandwidth per port to allocate network resources effectively.

Layer 2 Managed Ethernet Switch with Powerful Software Features

802.3ad Static aggregation

Spanning Tree Protocol

Jumbo Frame

LOOP

LACP

QoS

VLAN



Figure 5: Overview of the Layer 2 managed features supported by the switch, including 802.3ad Static Aggregation, Spanning Tree Protocol, Jumbo Frame, LOOP, LACP, QoS, and VLAN.

2.5G Ports and 16KB Jumbo Frame

Expand your network bandwidth and reduce traffic bottlenecks



Figure 6: Visual representation of the 2.5G ports and the impressive 60Gbps switching capacity, highlighting the performance advantage over traditional Gigabit switches.

4. MAINTENANCE

4.1 General Care

- Keep the switch in a cool, dry environment.
- Avoid exposing the device to direct sunlight, high temperatures, or excessive humidity.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation around the device, even though it features a fanless design.

4.2 Fanless Cooling and Metal Housing

The keepLiNK KP-9000-9XHML-X utilizes a robust metal casing and a fanless cooling method. This design ensures:

- **Silent Operation:** No fan noise, making it ideal for quiet environments like homes or offices.
- **Enhanced Durability:** The metal housing provides better heat dissipation and protection against physical damage.
- **Reliability:** Fewer moving parts (no fan) reduce potential points of failure.

4.3 Factory Reset

To restore the switch to its factory default settings:

1. Locate the "Reset" button on the front panel of the switch.
2. With the switch powered on, use a paperclip or a similar pointed object to press and hold the "Reset" button for approximately 6 seconds.
3. Release the button. The switch will reboot with its factory default settings, including the IP address (192.168.2.1) and login credentials (admin/admin).

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

- **No Power:**
 - Ensure the power adapter is securely connected to the switch and a working power outlet.
 - Verify the power outlet is active.
- **No Link Light on Port:**
 - Check the Ethernet cable connection at both ends (switch and connected device).
 - Try a different Ethernet cable.
 - Ensure the connected device is powered on and its network adapter is enabled.
 - For 2.5G connections, ensure both devices and the cable (Cat6 or higher) support 2.5G speeds.
- **Cannot Access Web Management Interface:**
 - Verify your computer's IP address is in the same subnet as the switch (default 192.168.2.X).
 - Ensure you are using the correct default IP address (192.168.2.1) and credentials (admin/admin).
 - Clear your browser's cache or try a different browser.
 - Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
 - If the IP address was changed and forgotten, perform a factory reset (refer to Section 4.3).
- **Slow Network Speed:**
 - Ensure all connected devices (NICs, NAS, routers) support 2.5G speeds for optimal performance.
 - Use Cat6 or higher Ethernet cables for 2.5G and 10G connections. Cat5e cables are limited to 1Gbps.
 - Check for network congestion or loops (though the switch has loop prevention, misconfigurations can occur).
 - Verify QoS settings if you are experiencing performance issues with specific applications.

6. TECHNICAL SPECIFICATIONS

Feature	Description
Model Number	KP-9000-9XHML-X
Brand	keepLiNK
Number of Ports	8 x 2.5GBASE-T RJ45, 1 x 10G SFP+
Data Transfer Rate	60 Gigabits per second (Switching Capacity)
Interface Type	RJ45, SFP
Switch Type	Managed (Web-based)
Supported Standards	IEEE 802.3bz (2.5G), IEEE 802.3ae (SFP+), IEEE 802.3ab (Static Link Aggregation)
Management Features	VLAN, QoS, Multicast (IGMP), MAC, Static Link Aggregation, Spanning Tree Protocol, Jumbo Frame (16KB), Loop Prevention, Bandwidth Control
Cooling Method	Fanless
Housing Material	Metal
Dimensions (Approx.)	175mm (W) x 73mm (D) x 28mm (H) / 6.89in (W) x 2.87in (D) x 1.1in (H)
Compatible Devices	Computers, Servers, Printers, Laptops, NAS, Wi-Fi 6 APs

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Please refer to the retailer's or manufacturer's official website for specific warranty terms and conditions. Typically, network hardware comes with a limited warranty covering manufacturing defects.

7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries about your keepLiNK product, please contact keepLiNK customer support through their official website or the retailer from whom you purchased the product. Have your model number (KP-9000-9XHML-X) and purchase details ready when contacting support. You may also find additional resources, FAQs, and firmware updates on the official keepLiNK support page.

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

Answered questions about this manual

How can I update the firmware for the keepLiNK KP-9000-9XHML-X network switch?

The user manual for the keepLiNK KP-9000-9XHML-X does not provide a step-by-step walkthrough for the firmware update process within the physical document. However, firmware updates for this web-managed switch are typically handled through the...

[Read full answer](#)