

Goalake 9 Ports|8*2.5G+1*10G SFP

Goalake 8-Port 2.5G Ethernet Switch with 10G SFP Port User Manual

Model: 9 Ports|8*2.5G+1*10G SFP

Brand: Goalake

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Goalake 8-Port 2.5G Ethernet Switch with 10G SFP Port. This unmanaged switch is designed to enhance your network's performance with high-speed connectivity, making it suitable for various applications including 2.5G NAS, 4K video streaming, gaming PCs, and 2.5G WiFi 6 access points.

Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

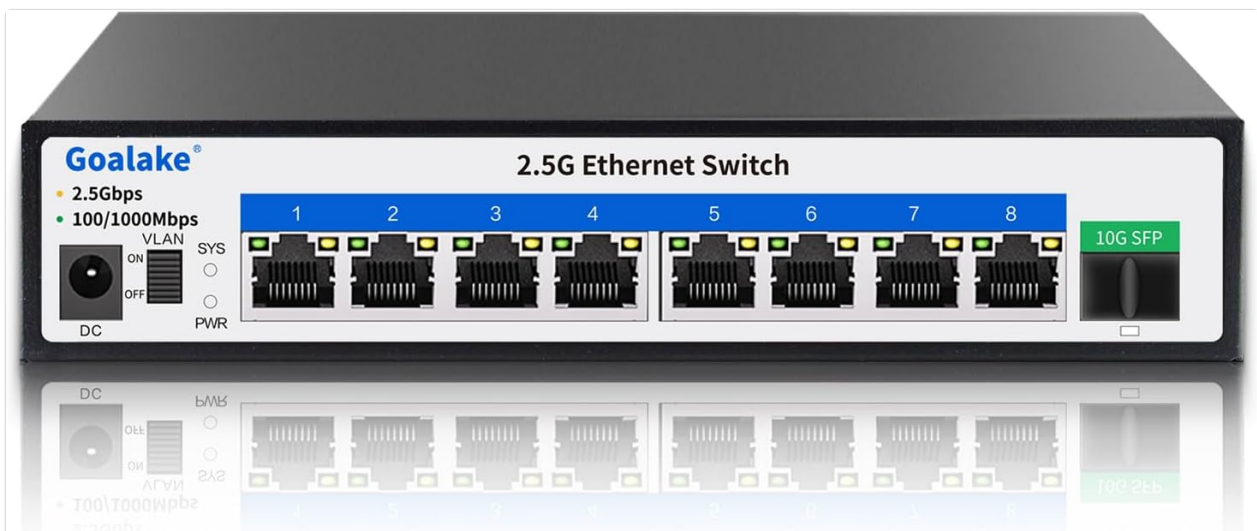


Figure 1.1: Front view of the Goalake 8-Port 2.5G Ethernet Switch, showing the 8 RJ45 ports and 1 SFP port.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any item is missing or damaged, please contact customer support.

- 1x Goalake 8-Port 2.5G Ethernet Switch
- 1x Power Cord
- 1x User Manual (this document)



Figure 2.1: Contents of the product package, including the switch, power cord, and user manual.

3. PRODUCT OVERVIEW

The Goalake 8-Port 2.5G Ethernet Switch features multiple ports and indicators for easy monitoring and connectivity.

3.1 Front Panel



Figure 3.1: Front panel layout with labeled components.

- **DC Input Port:** Connects to the power adapter.
- **PWR (Power) LED:** Indicates power status. Green for On, Off for Powered off.
- **SYS (System) LED:** Indicates system status.
- **VLAN Switch:** Toggles VLAN mode on/off.
- **8x 2.5G RJ45 Ports (1-8):** Standard Ethernet ports supporting 10/100/1000/2500Mbps speeds. Each port has two LEDs:
 - Green LED: Indicates 100/1000/2.5Gbps link/activity.
 - Orange LED: Indicates 10/100/1000Mbps link/activity.
- **1x 10G SFP Port:** Supports 1G/2.5G/10G optical fiber modules (module not included).

4. SETUP INSTRUCTIONS

The Goalake 2.5G Ethernet Switch is designed for plug-and-play operation, requiring no complex configuration.

4.1 Initial Connection

1. **Connect to Power:** Plug the provided power cord into the DC input port on the switch, then connect the other end to a power outlet. The PWR LED should illuminate.
2. **Connect Devices:** Use standard Ethernet cables (Cat5e, Cat6, or Cat6a recommended for optimal performance) to connect your network devices (e.g., computers, NAS, routers, access points) to any of the 2.5G RJ45 ports (1-8).
3. **Connect Uplink (Optional):** If connecting to a router or another switch for network access, use one of the RJ45 ports or the 10G SFP port. For 10G connectivity, an appropriate SFP+ module (not included) must be inserted into the SFP port.

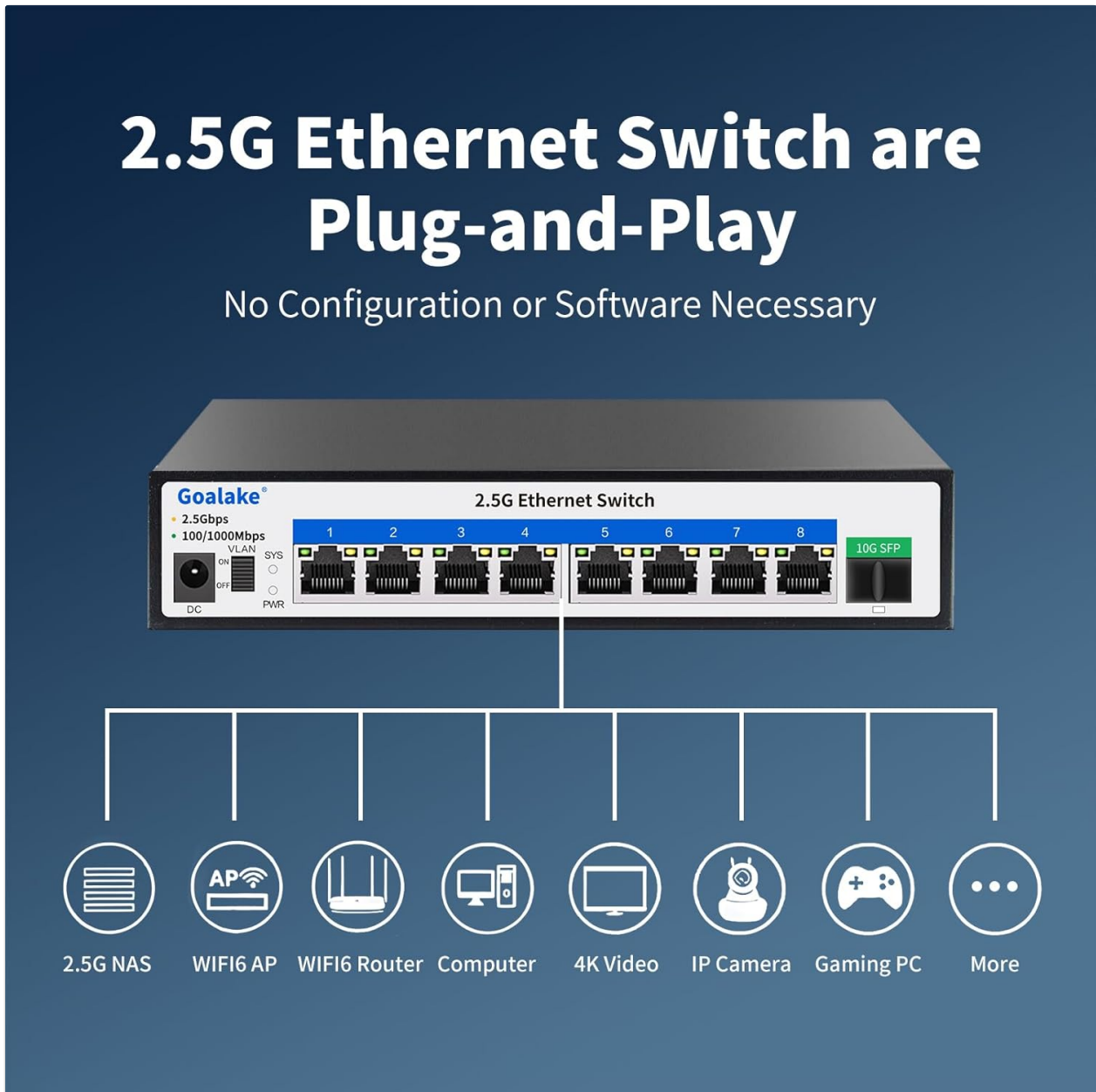


Figure 4.1: Simple plug-and-play connection diagram for various devices.

The switch will automatically detect the connected devices and establish network links. No software installation or configuration is typically required for basic operation.

5. OPERATING INSTRUCTIONS

5.1 Standard Operation

Once connected, the switch operates automatically. Data transfer occurs at the highest supported speed between connected devices (10/100/1000/2500Mbps for RJ45 ports, up to 10Gbps for SFP port with

compatible module).

5.2 One-Key VLAN Mode

The switch features a One-Key VLAN mode to enhance network security and manage broadcast traffic.

- **Activating VLAN:** Locate the VLAN switch on the front panel. Toggle it to the 'ON' position.
- **VLAN Functionality:** When VLAN mode is active, ports 1 through 8 are isolated from each other. Devices connected to these ports can only communicate with the 10G SFP port. This prevents direct communication between devices on ports 1-8 and helps mitigate broadcast storms and isolate DHCP broadcasts.
- **Deactivating VLAN:** Toggle the VLAN switch to the 'OFF' position to return to standard operation, where all ports can communicate freely.



Figure 5.1: Visual representation of port isolation in One-Key VLAN mode.



6. KEY FEATURES

The Goalake 8-Port 2.5G Ethernet Switch is designed with several features for reliable and efficient network operation:



- **High-Speed Connectivity:** 8x 2.5G RJ45 ports and 1x 10G SFP port provide a total switching capacity of 60Gbps.
- **Plug and Play:** No configuration required for basic operation.
- **One-Key VLAN:** Simple toggle switch for port isolation, enhancing network security and reducing broadcast domains.
- **Fanless Design:** Ensures silent operation, suitable for quiet environments.
- **Energy Efficient:** Low power consumption, with standby power less than 2W.
- **Durable Metal Housing:** Compact and sturdy desktop design for various environments.
- **6KV Lighting Protection:** Provides enhanced durability against electrical surges.
- **Wide Temperature Range:** Operates reliably in temperatures from 0°C to 40°C.

Efficient Power Consumption for Maximum Savings Standby Power Less Than 2W, Minimizing Electricity Costs



Energy Saving

6KV Lighting Protection

Fanless Design

Wide Temperature Range






Figure 6.1: Overview of the switch's energy efficiency, protection, and design features.

2.5G&10G Combination for High Speed Connectivity



Figure 6.2: Illustration of the 2.5G RJ45 and 10G SFP port combination for flexible high-speed networking. Note: SFP module is not included.

7. SPECIFICATIONS

Technical specifications for the Goalake 8-Port 2.5G Ethernet Switch:

Feature	Specification
Model Number	9 Ports 8*2.5G+1*10G SFP
Number of Ports	8x 2.5G RJ45, 1x 10G SFP
Data Transfer Rate	2500 Megabits Per Second (RJ45), 10000 Megabits Per Second (SFP)
Switching Capacity	60Gbps
Interface Type	RJ45, SFP
Case Material	Metal

Product Dimensions (L x W x H)	5.35" x 2.05" x 11.3"
Item Weight	1.65 pounds
Color	Black
Compatible Devices	Desktop, Gaming console, Laptop, Server

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your switch.

8.1 No Power

- Ensure the power cord is securely connected to both the switch and a working power outlet.
- Check if the power outlet is functional by plugging in another device.
- Verify the PWR LED on the switch is illuminated.

8.2 No Network Connectivity

- Check that Ethernet cables are securely connected to both the switch and your devices.
- Verify the link/activity LEDs on the connected ports are illuminated. If not, try a different cable or port.
- Ensure your connected devices (e.g., computer, router) are powered on and configured correctly.
- If VLAN mode is active, ensure your devices are communicating through the SFP port as intended. Disable VLAN mode temporarily to test if it resolves the issue.
- Restart the switch by unplugging and re-plugging the power cord.

8.3 Slow Network Speed

- Ensure you are using Cat5e, Cat6, or Cat6a Ethernet cables for 2.5G speeds. Older cables (e.g., Cat5) may limit performance.
- Verify that your connected devices (e.g., network adapter, router) support 2.5G Ethernet.
- Check the link/activity LEDs on the switch ports. The green LED indicates 100/1000/2.5Gbps.
- If using the 10G SFP port, ensure the SFP+ module and connected fiber optic cable are compatible and functioning correctly.

9. MAINTENANCE

To ensure the longevity and optimal performance of your Goalake Ethernet Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the switch is placed in a well-ventilated area. Do not block the ventilation holes.
- **Environment:** Avoid placing the switch in areas with high humidity, extreme temperatures, or direct sunlight.
- **Cable Management:** Keep network cables organized and free from kinks or excessive bending to prevent signal degradation.

10. WARRANTY AND SUPPORT

Goalake provides comprehensive after-sales support for its products.

10.1 Warranty Information

This product is covered by a **one-year after-sales service plan** from the date of purchase. If your product experiences any issues within this period, Goalake will provide a replacement.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact Goalake customer support through the retailer where the product was purchased or visit the official Goalake website for contact information.