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Goalake 24 PoE+ Ports | 360W Managed

Goalake 24-Port Gigabit PoE+ Managed Ethernet Switch User Manual

Model: 24 PoE+ Ports | 360W Managed

Brand: Goalake

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Goalake 24-Port Gigabit PoE+ Managed Ethernet Switch. This device is designed to provide reliable and efficient network connectivity with Power over Ethernet capabilities for various applications.

2. PRODUCT OVERVIEW

The Goalake 24-Port Gigabit PoE+ Managed Ethernet Switch is a robust networking solution featuring 24 managed PoE+ ports, 2 Gigabit uplink ports, and 2 SFP slots. It complies with IEEE802.3af/at standards, delivering up to 30W per PoE port with a total power budget of 360W. This switch supports both data and power transmission over a single cable, simplifying installations for IP cameras and wireless access points. Its easy smart management allows for effortless network configuration and monitoring via a web interface or mobile application, including remote detection and restart functionalities. The device is built with a sturdy metal casing and an industrial-grade fan design for efficient heat dissipation and reliable operation in various temperature environments. It also includes 4KV lightning protection to safeguard your network.

Supports 802.3af/at

Single port's PoE power reaching 30W,
total output power up to 360W.

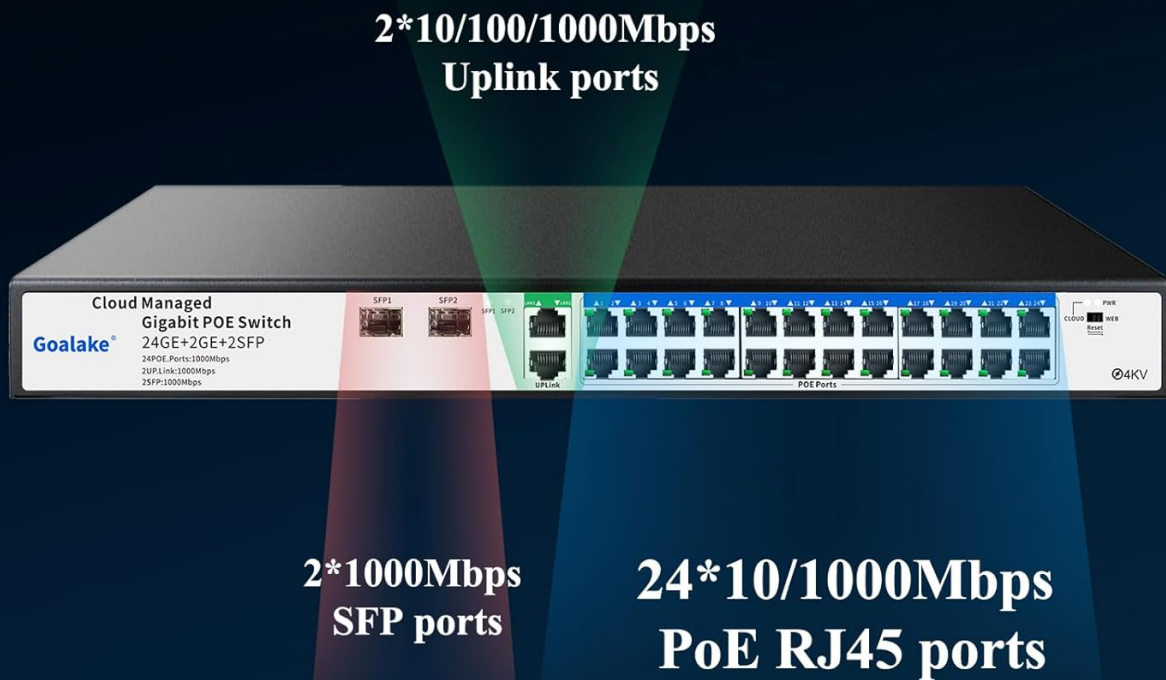


Figure 2.1: Front view of the Goalake 24-Port Gigabit PoE+ Managed Ethernet Switch, highlighting 24x 10/100/1000Mbps PoE RJ45 ports, 2x 1000Mbps SFP ports, and 2x 10/100/1000Mbps Uplink ports. It supports 802.3af/at standards with a single port PoE power up to 30W and a total output power up to 360W.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Goalake 24-Port Gigabit PoE+ Managed Ethernet Switch
- 1 Power Cord
- User Manual

4. SETUP

4.1 Physical Installation

The switch features a robust metal construction designed for durability and efficient heat dissipation. It can be mounted on a desktop or wall.


Easy Installation: Plug and Play


- 1. Connect to Power (Power Adapter Included)**

- 2. Connect the Devices**


- 3. Enjoy ✓**


Figure 4.1: Easy Installation: Plug and Play. Simply connect the power cord, then connect your network devices to the PoE ports.


Fanless 



High-Quality Metal



Wide Operating Temperature



Fanless



High-Quality Metal

Wide Operating Temperature

0°C

40°C

Figure 4.2: The switch features a fanless design, high-quality metal construction, and supports a wide operating temperature range from 0°C to 40°C for stable and reliable performance.

4.2 Basic Connectivity

1. **Connect Power:** Plug the provided power cord into the switch's power input and then into a suitable power outlet.
2. **Connect Uplink:** Connect your router or main network device to one of the Gigabit uplink ports or SFP slots using an Ethernet cable.
3. **Connect PoE Devices:** Connect your PoE-compatible devices (e.g., IP cameras, wireless access points) to the PoE RJ45 ports using Ethernet cables. The switch will automatically detect and power these devices.
4. **Connect Non-PoE Devices:** Non-PoE devices can also be connected to the PoE RJ45 ports for data transmission. Note that these devices will require an independent power supply.

5. OPERATING INSTRUCTIONS

5.1 Smart Management (Web/APP)

The Goalake switch offers flexible management options via a web interface or a dedicated mobile application. This allows for remote and local control, monitoring, and configuration of your network.

Effortless Network Management

Comprehensive Web/APP Interface for Remote & Local Control



Figure 5.1: Effortless Network Management through comprehensive Web/APP interfaces for remote and local control.



Figure 5.2: The Goalake Cloud Managed Switch can be managed through both a computer application and a mobile application.

Make management easier

Provides the ultimate network management flexibility providing you with remote cloud access.
Locally manage your devices with the ultimate in security and stability.

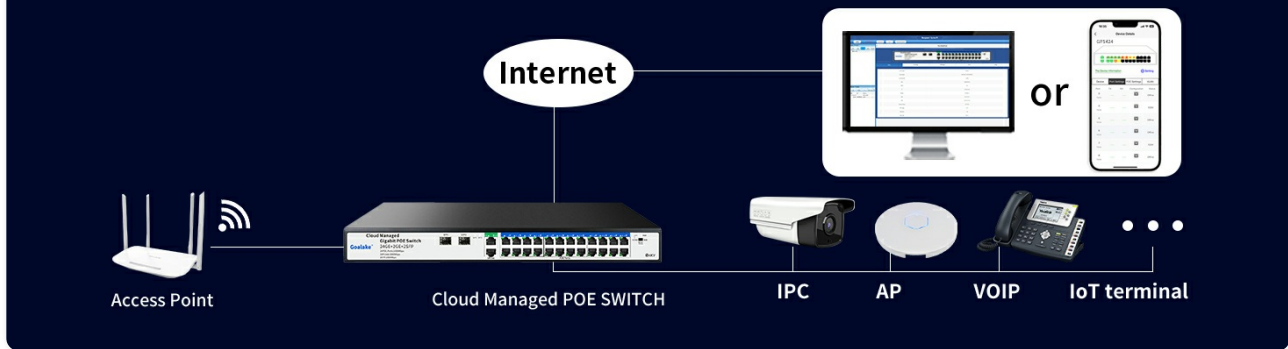


Figure 5.3: Network management is made easier with remote cloud access and local device management, providing ultimate flexibility, security, and stability.

Download the mobile application for convenient management:

- [Google Play Store \(Android\)](#)
- [Apple App Store \(iOS\)](#)

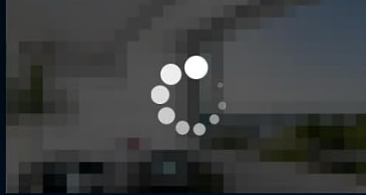
5.2 VLAN Configuration

Utilize VLAN (Virtual Local Area Network) features for enhanced network security and performance. VLANs allow you to segment your network into isolated broadcast domains, improving efficiency and security.

VLAN For Higher Security

Goalake managed switch also supports:

- Remote Detection
- Remote Restart
- Remote On and Off
- Ultra-Far Mode



VLAN 1



VLAN 2



VLAN...



VLAN 24

Figure 5.4: VLAN for Higher Security. The Goalake managed switch supports remote detection, remote restart, remote on and off, and ultra-far mode.

Secure with VLAN features

VLANs allow you to create secure, high-performing network segments for different devices.

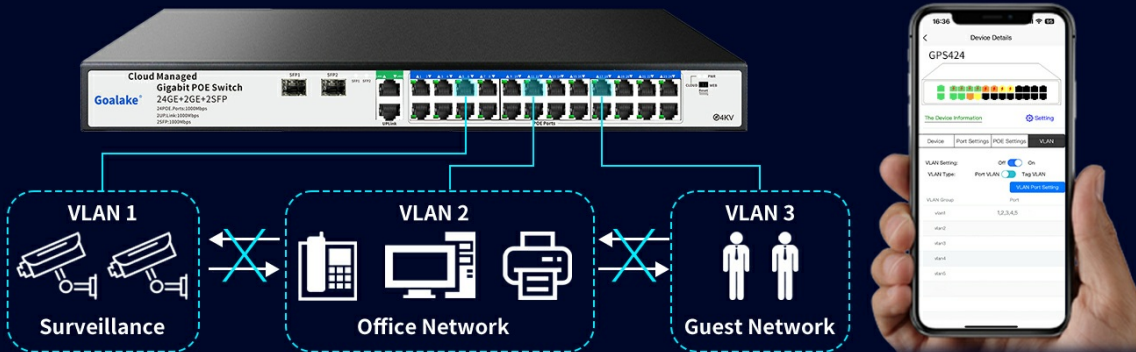
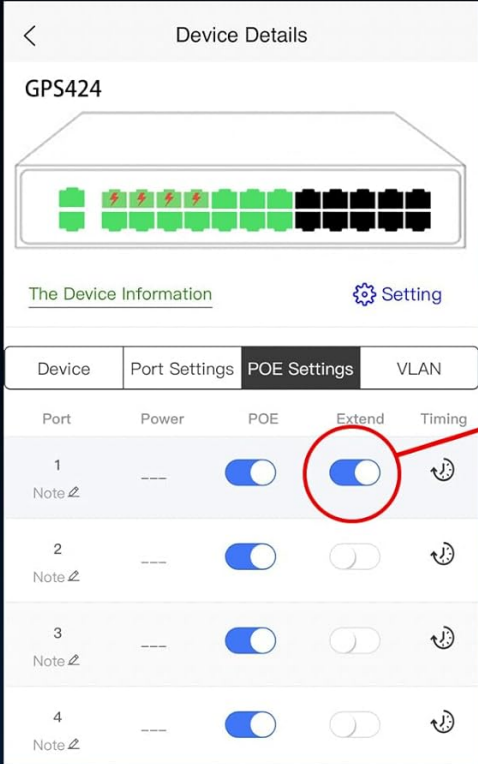


Figure 5.5: Secure with VLAN features. VLANs allow you to create secure, high-performing network segments for different devices, such as surveillance, office, and guest networks.

5.3 PoE Settings (Extend Mode, Scheduled Restart)

The switch offers advanced PoE settings, including an Extend Mode for longer cable runs and scheduled restart options for improved reliability.

Cloud Managed Ultra-Far Transmission Ethernet PoE+ Switch



Device Details



GPS424

The Device Information Setting



Device	Port Settings	POE Settings	VLAN		
	Port	Power	POE	Extend	Timing
1	Note ↗	---	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	↻
2	Note ↗	---	<input checked="" type="checkbox"/>	<input type="checkbox"/>	↻
3	Note ↗	---	<input checked="" type="checkbox"/>	<input type="checkbox"/>	↻
4	Note ↗	---	<input checked="" type="checkbox"/>	<input type="checkbox"/>	↻

820_{FT} Extend

Click to turn on Ultra-Far mode Up to 250m

250MeterX24Data
10Mbps

360 WattsPOWER

100MeterX24Data
100Mbps

360 WattsPOWER

**** Tips **** : You need Category 5e for the cable

Figure 5.6: Cloud Managed Ultra-Far Transmission. Activate Extend Mode via the app to achieve PoE transmission distances of up to 250 meters (820 feet) using Category 5e cables.

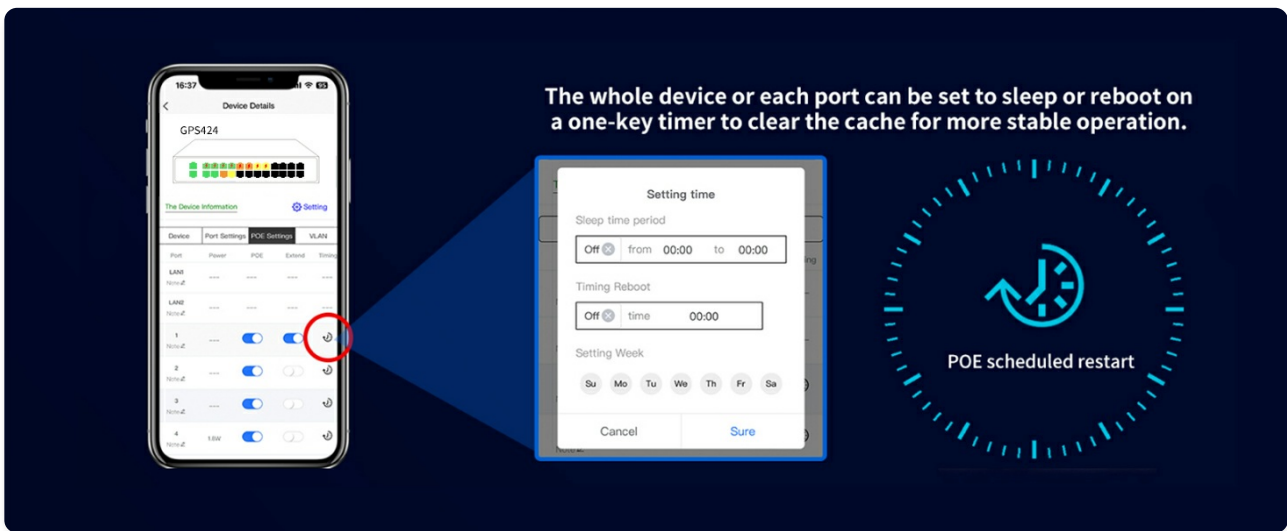


Figure 5.7: PoE Scheduled Restart. The entire device or individual ports can be set to sleep or reboot on a one-key timer to clear the cache for more stable operation.

5.4 Traffic Monitoring and QoS

The smart management features allow for precise bandwidth control and QoS (Quality of Service) optimization. Monitor traffic and troubleshoot abnormalities with ease.

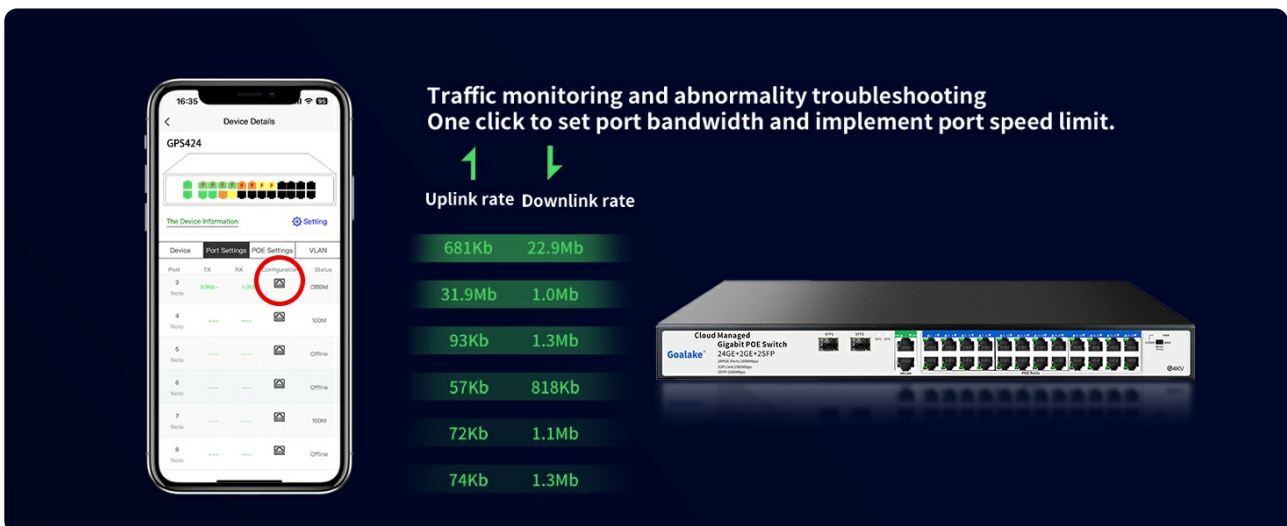


Figure 5.8: Traffic Monitoring and Abnormality Troubleshooting. One click to set port bandwidth and implement port speed limits.

6. MAINTENANCE

To ensure optimal performance and longevity of your Goalake PoE switch, regular maintenance is recommended:

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and debris.
- **Firmware Updates:** Check the Goalake website or app for available firmware updates to ensure your device has the latest features and security enhancements.
- **Cable Management:** Ensure all cables are neatly organized and securely connected to prevent accidental disconnections or damage.
- **Environmental Conditions:** Operate the switch within the specified temperature range (0°C to 40°C) and avoid excessive humidity.

7. TROUBLESHOOTING

If you encounter issues with your switch, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cord is securely connected to both the switch and the power outlet. Verify the power outlet is functional.
- **No Link/Activity:** Check the Ethernet cables for secure connections and damage. Ensure the connected device is powered on and functioning correctly.
- **PoE Device Not Powering On:** Verify the connected device is PoE-compatible (IEEE802.3af/at). Check the PoE settings in the management interface, including Extend Mode if applicable. Ensure the total PoE budget (360W) is not exceeded.
- **Slow Network Speed:** Check cable quality (Category 5e recommended for Extend Mode). Monitor port traffic via the management app to identify bottlenecks. Ensure QoS settings are configured appropriately.
- **Remote Access Issues:** Verify your internet connection and router settings. Ensure the switch is properly configured for cloud management and the app is updated.

For further assistance, please contact Goalake technical support.

8. SPECIFICATIONS

Feature	Description
Product Dimensions	5"L x 4.5"W x 1.3"H
Item Weight	1.23 Pounds
Maximum PoE Power	360 Watts (Total for all PoE ports)
Interface Type	RJ45, SFP
Data Transfer Rate	1000 Gigabits Per Second
Number of Ports	24 PoE+ Ports + 2 Gigabit Uplink + 2 SFP Slot
Color	Black
Compatible Devices	Cameras, Printers, Wireless Access Points, IP Phones
Manufacturer	GL
Item Model Number	24 PoE+ Ports 360W Managed

9. SAFETY INFORMATION

Professional Lightning Protection: The Goalake PoE switch is equipped with 4KV lightning protection, featuring two levels of protection. This design effectively safeguards your entire network monitoring system against lightning strikes,

providing a secure environment for your devices.

10. WARRANTY AND SUPPORT

Goalake offers a comprehensive one-year after-sales service plan. Should any issues arise within the first year from your order date, we provide replacements and technical support to ensure your satisfaction. Customer satisfaction is our top priority, and we are committed to providing excellent after-sales service.

For technical support or warranty claims, please contact Goalake customer service through the platform where you purchased the product.