Goalake 10 Ports (8 PoE) | 120W Managed

Goalake 10-Port Managed PoE Switch (8 PoE Ports, 2 Uplink, 120W) User Manual

Brand: Goalake | Model: 10 Ports (8 PoE) | 120W Managed

1. Introduction

This manual provides comprehensive instructions for the Goalake 10-Port Managed PoE Switch. This device is designed to facilitate network expansion and power delivery to compatible devices over Ethernet cables. It features 8 Power over Ethernet (PoE) ports and 2 Gigabit uplink ports, offering a total power budget of 120W. The switch supports advanced network management features including VLAN, QoS, and an extend function for longer cable runs, making it suitable for various networking environments.

2. Package Contents

- 10 Port PoE Switch
- 1 Power Cord
- User Manual

3. Product Overview and Features

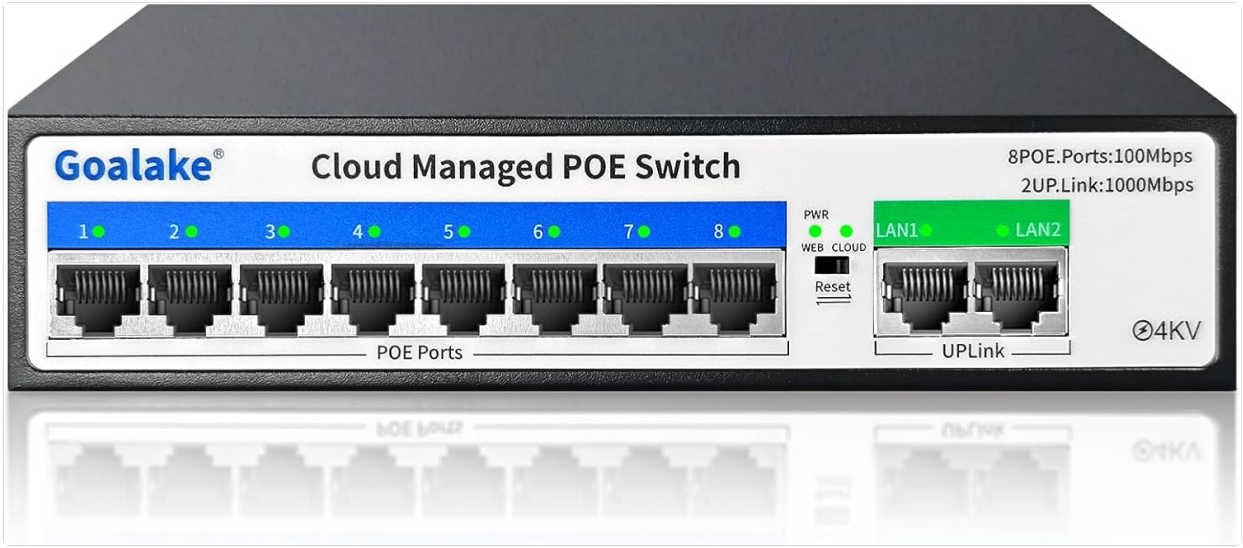

Figure 1: Front view of the Goalake 10-Port Managed PoE Switch, showing 8 PoE ports and 2 uplink ports.

3.1. PoE Functionality

- **8 PoE Ports:** Provides 8 Power over Ethernet ports (10/100Mbps) compliant with IEEE802.3af/at standards. Each port can deliver up to 30W.
- **Total Power Budget:** Supports a total PoE power output of up to 120W across all PoE ports.
- **Uplink Ports:** Includes 2 Gigabit (1000Mbps) uplink ports for high-speed network connectivity.
- **Compatibility Note:** For passive PoE or non-PoE devices, the switch transmits data only. An independent power supply or an active PoE splitter is required for power.

3.2. Network Management

Figure 2: Web and mobile application interfaces for managing the switch.

- **Easy Smart Management:** Configure and monitor the network via a dedicated mobile application or a comprehensive web interface.
- **Cloud Management:** Intuitive cloud management interface allows remote monitoring and management of the network.
- **Advanced Features:** Includes precision bandwidth control, Quality of Service (QoS) optimization, 802.1Q VLAN support, static MAC addressing, storm control, port mirroring, auto MDI/MDI-X, and IEEE802.3X full-duplex flow control.

3.3. Physical Design and Durability

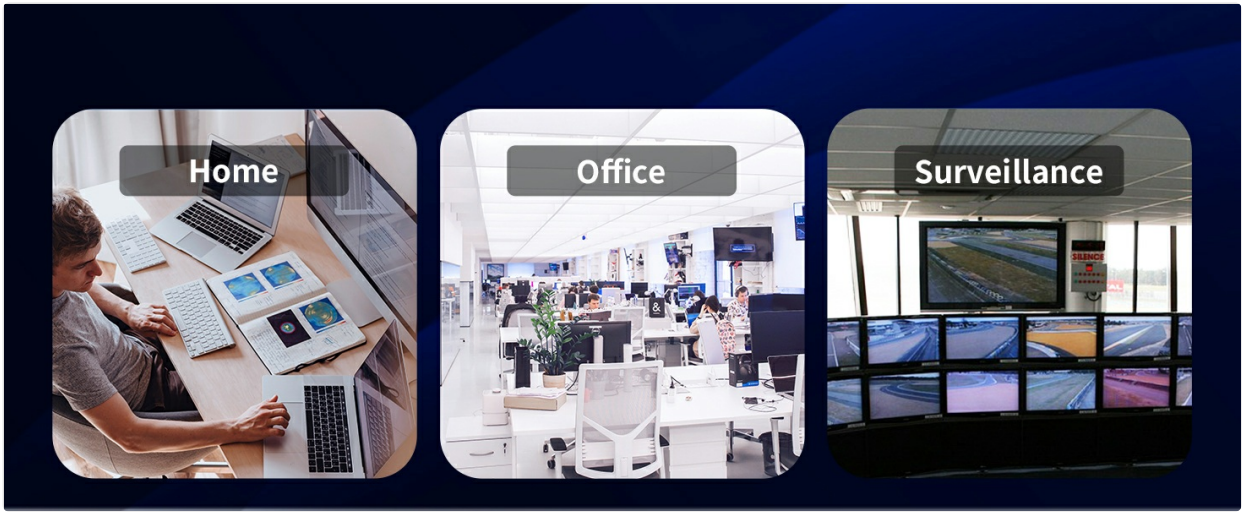

Figure 3: Key design aspects: fanless operation, durable metal housing, and wide operating temperature.

- **Built-in Industrial Power Supply:** Ensures reliable power delivery.
- **Durable Metal Housing:** Provides longevity and protection.
- **Fanless Design:** Enables silent operation and efficient heat dissipation.
- **LED Indicators:** Facilitates easy monitoring of port status and network activity.

3.4. Protection and Compatibility

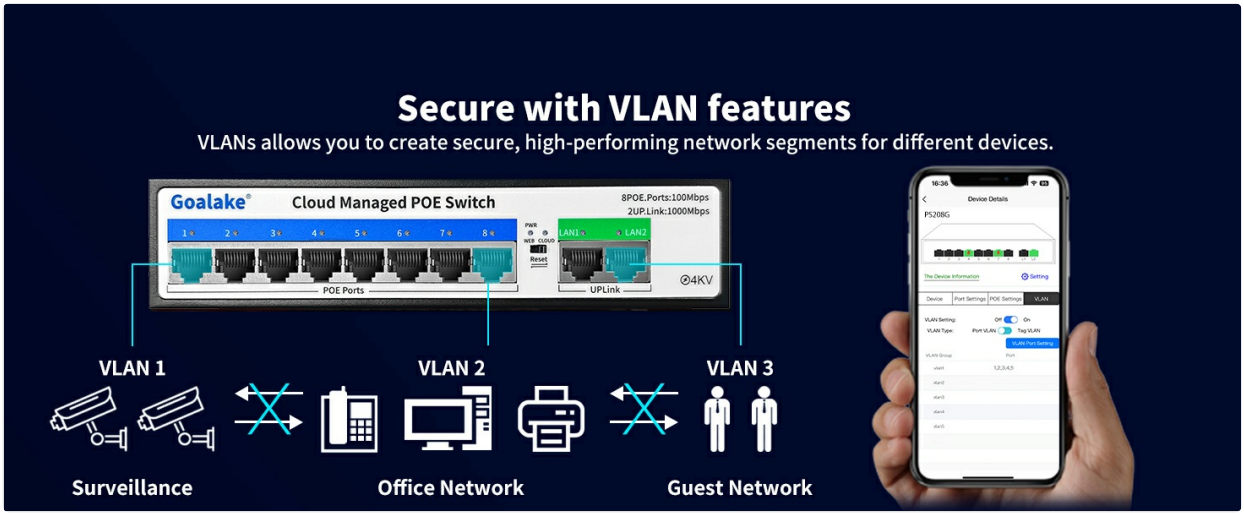

Figure 4: Features including 4KV lightning protection and switching capacity.

- **Professional Lightning Protection:** Features 4KV lightning protection to safeguard the network monitoring system.
- **Universal Compatibility:** Fully compatible with IP cameras, access points, IP phones, computers, printers, and other network devices.

4. Setup Instructions

4.1. Physical Installation

Figure 5: Easy installation steps for the PoE switch.

1. **Connect to Power:** Plug the provided power cord into the switch's AC IN port and then into a standard electrical outlet.
2. **Connect to Network:** Connect your router or main network device to one of the switch's uplink ports using a standard Ethernet cable.
3. **Connect PoE Devices:** Connect your PoE-compatible devices (e.g., IP cameras, wireless access points) to the PoE ports (ports 1-8) using Ethernet cables. The switch will automatically detect and power these devices.
4. **Connect Non-PoE Devices:** Non-PoE devices can be connected to any port for data transmission. If power is required, an independent power supply or an active PoE splitter must be used.

4.2. Mounting Options

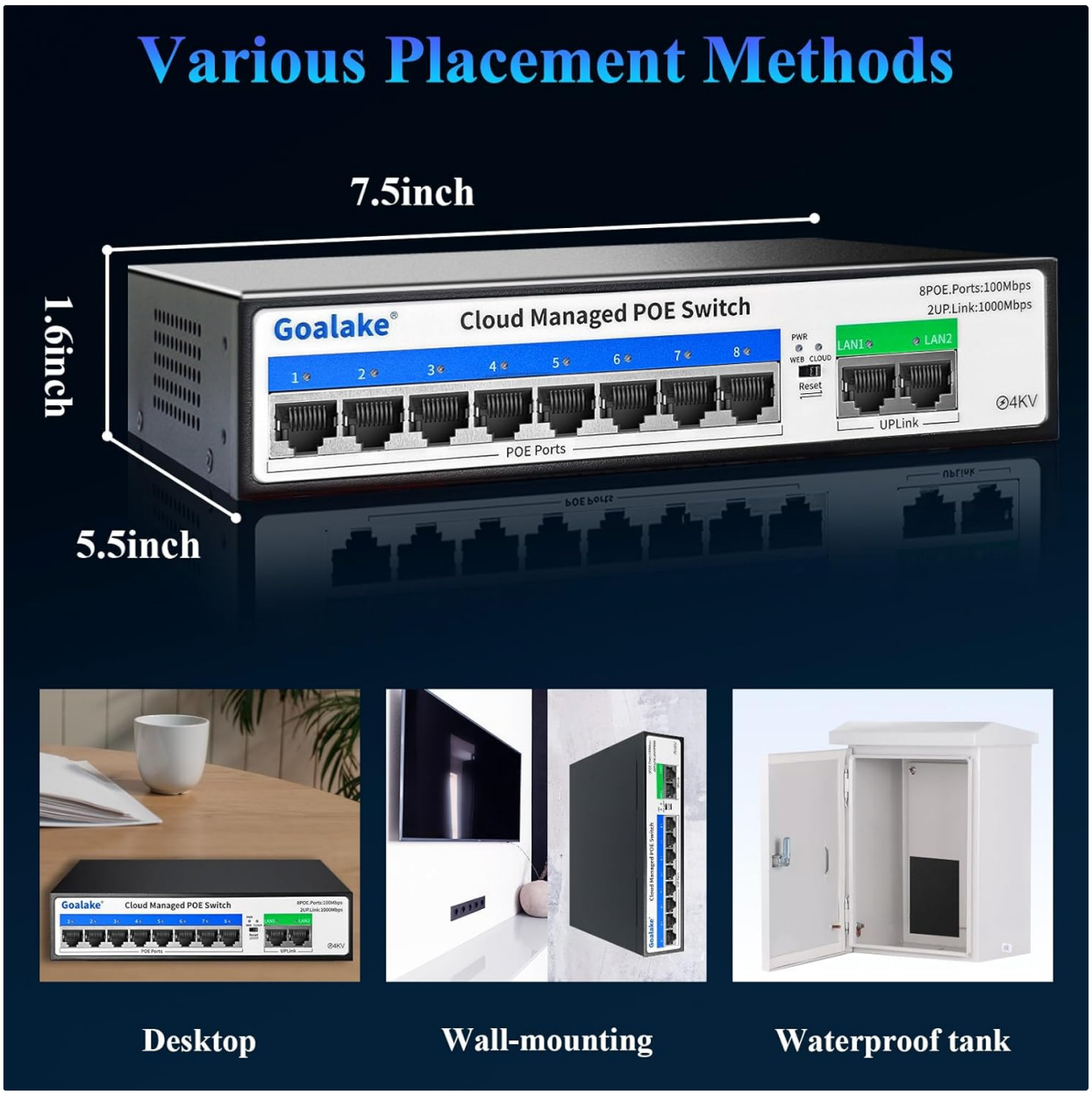

Figure 6: Flexible placement options for the switch.

The switch can be placed on a desktop or mounted on a wall. Ensure proper ventilation regardless of the placement method.

5. Operating Instructions

5.1. Accessing the Management Interface

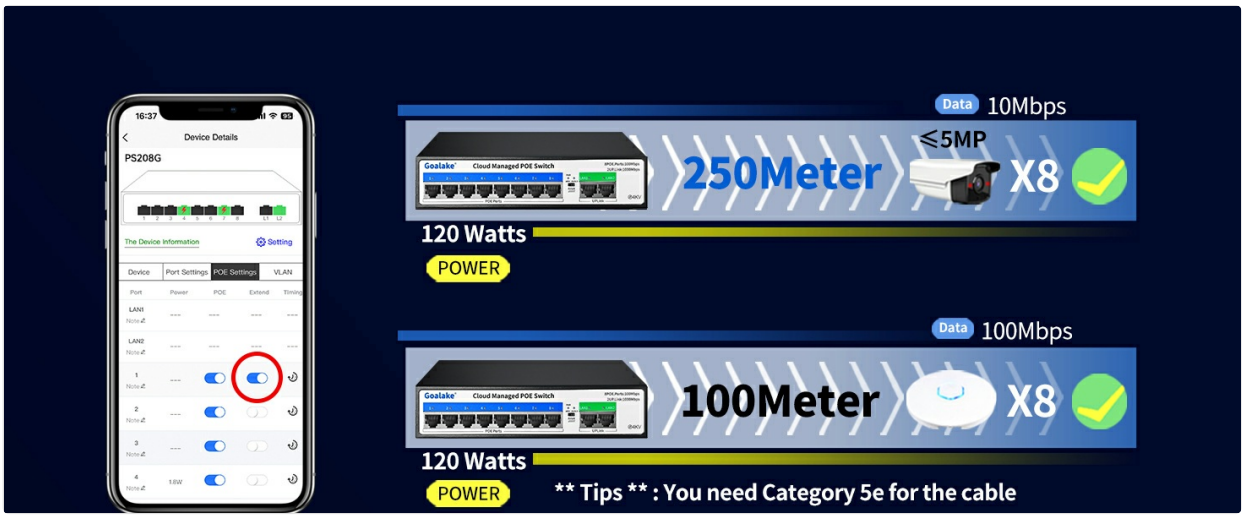

Figure 7: Web interface for advanced control and configuration.

The switch can be managed via a web interface or a mobile application. Refer to the full user manual for detailed instructions on accessing and navigating these interfaces.

5.2. Extend Function (Ultra-Far Mode)

Figure 8: Activating the Ultra-Far mode for extended PoE transmission.

The Extend Function allows for Power over Ethernet transmission up to 250 meters. This mode can be enabled via the management interface for specific PoE ports. Category 5e cables are recommended for optimal performance in extend mode.

5.3. VLAN Configuration

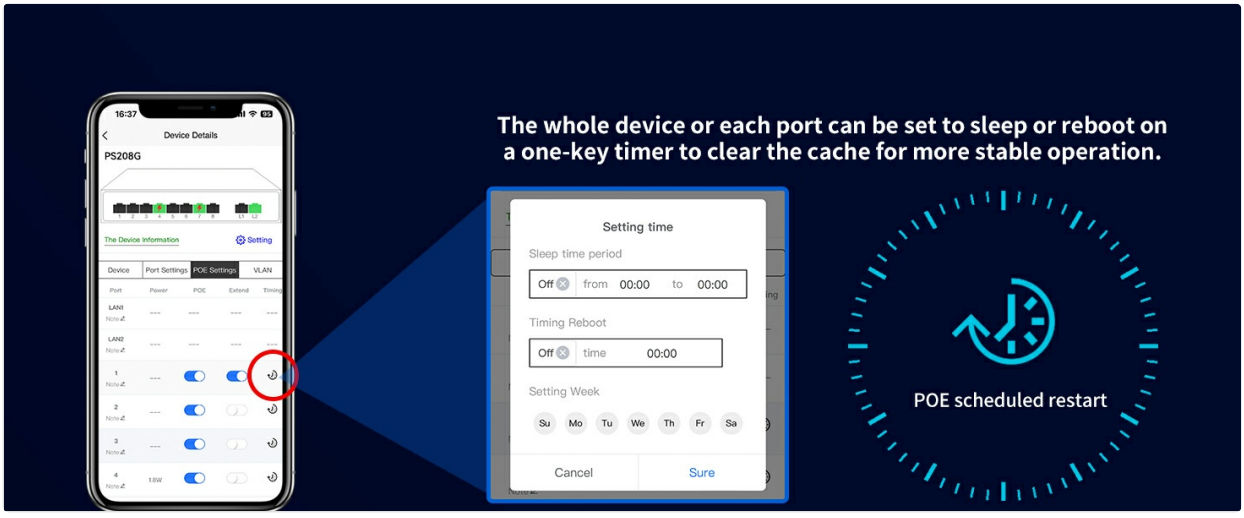

Figure 9: VLAN setup for network segmentation.

The switch supports IEEE 802.1Q VLANs, enabling network segmentation to enhance security and improve transmission efficiency by reducing broadcast storms. VLANs can be configured through the web or app interface.

5.4. Quality of Service (QoS)

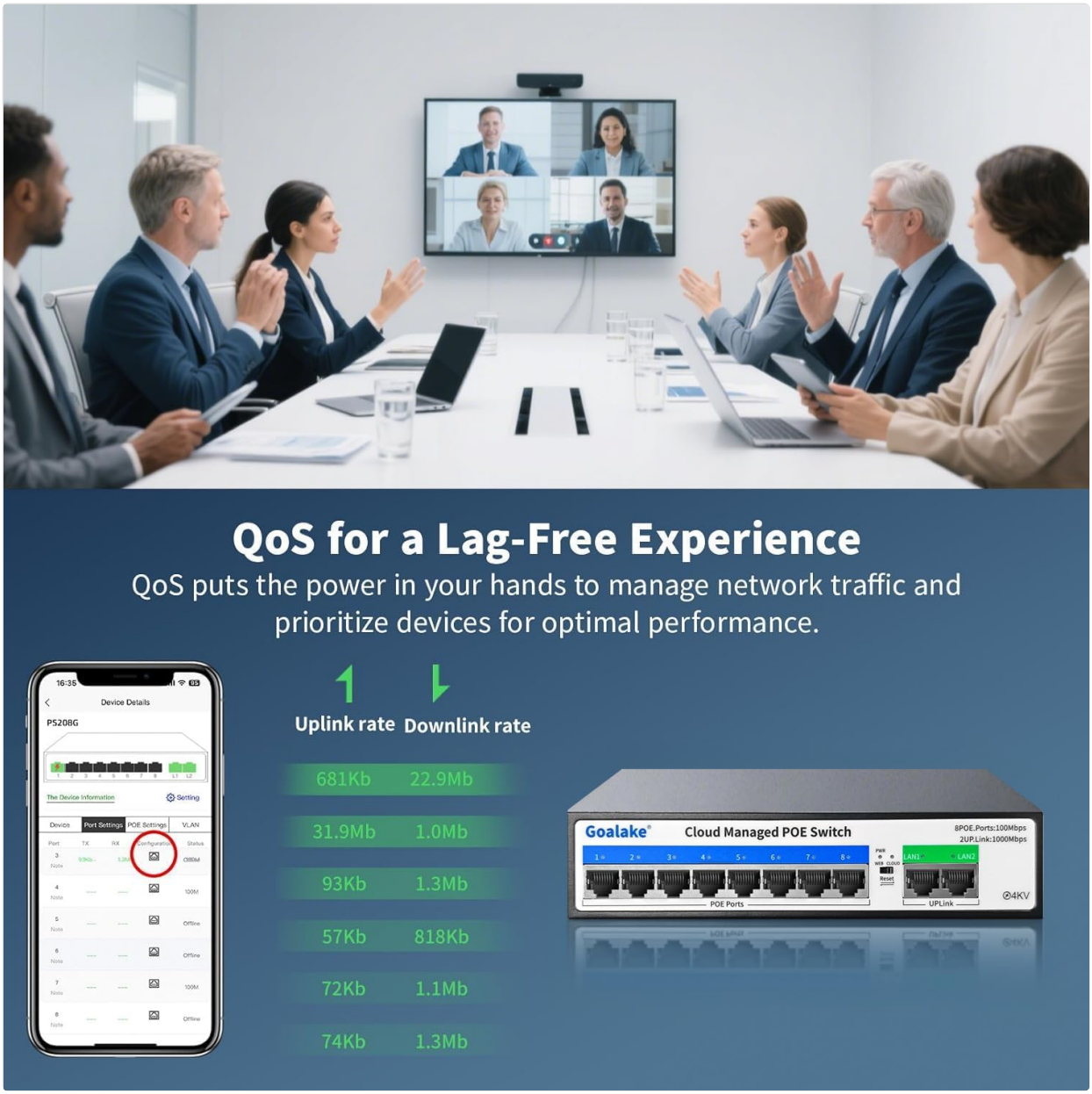

Figure 10: QoS settings for managing network traffic.

QoS allows for prioritizing network traffic to ensure optimal performance for critical applications. This feature can be configured via the management interface to manage bandwidth and minimize latency.

5.5. Scheduled Reboot and Sleep

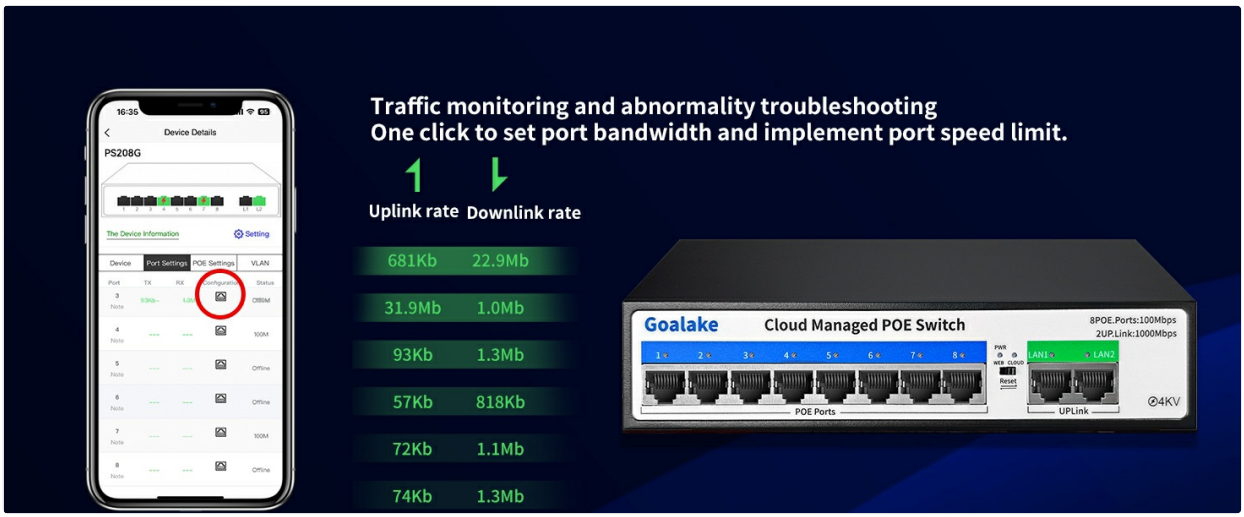

Figure 11: Configuration options for scheduled reboot and sleep modes.

The device or individual ports can be set to sleep or reboot on a scheduled timer. This function helps clear the cache and maintain stable operation.

5.6. Traffic Monitoring and Port Speed Limits

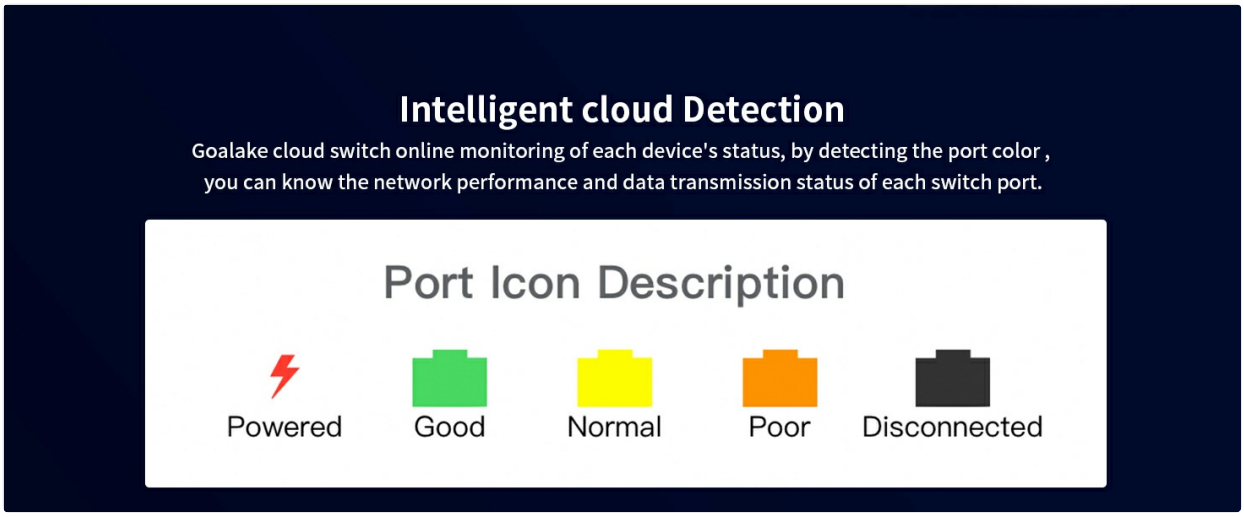

Figure 12: Interface for monitoring traffic and setting port speed limits.

The management interface provides tools for traffic monitoring and allows setting bandwidth limits for individual ports.

5.7. Intelligent Cloud Detection

Figure 13: Port icon descriptions for cloud-based status monitoring.

The cloud management function offers online monitoring of each device's status. Port color indicators provide information on network performance and data transmission status.

6. Maintenance

The Goalake PoE switch features a fanless design, which contributes to its silent operation and efficient heat dissipation. Regular maintenance primarily involves ensuring the device is placed in a well-ventilated area and keeping it free from dust and debris. No internal user-serviceable parts are present.

7. Troubleshooting

If you encounter issues with your Goalake 10-Port Managed PoE Switch, consider the following:

- **Power Check:** Ensure the power cord is securely connected to both the switch and the power outlet. Verify the power indicator LED is illuminated.
- **Cable Connections:** Check all Ethernet cable connections. Ensure cables are properly seated in their respective ports.
- **LED Indicators:** Observe the port LED indicators. Refer to the Intelligent Cloud Detection section (Figure 13) for an explanation of port status colors.
- **Device Compatibility:** Confirm that connected devices are compatible with PoE standards (IEEE802.3af/at) if expecting power delivery. For non-PoE devices, ensure they have an independent power source or are connected via an active PoE splitter.
- **Network Configuration:** If using advanced features like VLAN or QoS, verify configurations through the web or app interface. Incorrect settings can affect network connectivity.
- **Firmware Update:** Check the manufacturer's website or the management interface for available firmware updates, which can resolve known issues.
- **Reset:** As a last resort, a factory reset may resolve persistent issues. Consult the full user manual for instructions on performing a factory reset.

For further assistance, refer to the detailed troubleshooting section in the complete user manual or contact Goalake customer support.

8. Specifications

Feature	Specification
Product Dimensions	7.5"L x 5.5"W x 1.6"H
Case Material	Metal
Maximum Power	120 Watts
Interface Type	PoE
Data Transfer Rate	2 Gigabits Per Second (Uplink)
Item Weight	1.98 pounds
Number of Ports	10 (8 PoE, 2 Uplink)

Color	Blue
Compatible Devices	IP cameras, access points, IP phones, computers, printers, and more.

9. 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, replacements are provided to ensure customer satisfaction. For support, please contact Goalake's after-sales service.

10. Related Videos

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Video 1: An overview of the Goalake 10-port managed PoE switch, highlighting its features and functionality.

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