

Fiberhome S4820-28T-X-PE-AC

Fiberhome S4820-X Series Gigabit PoE Switch User Manual

Model: S4820-28T-X-PE-AC

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Fiberhome S4820-X Series Gigabit PoE Switch. The S4820-X series is a new generation Layer 2 and Layer 3 device designed for service providers and enterprise networks, offering high switching capacity and advanced features.

The S4820-28T-X-PE-AC model features 24 Gigabit PoE ports and 4 SFP+ ports, supporting 10 Gigabit data flows. It is suitable for various network scenarios, including convergence layers in large enterprises and campus networks, core layers in medium-sized enterprise networks, and edge layers in Metropolitan Area Networks (MANs). It can also function as a desktop switch for GE terminal access.

Key features include robust reliability technologies such as STP/RSTP/MSTP, Ethernet Ring Protection (G.8032), R-Link, and VRRP, ensuring link-level reliability.

2. SETUP AND INSTALLATION

2.1 Package Contents

Before proceeding with installation, verify that all components are present in the package:

- Fiberhome S4820-X Series Gigabit PoE Switch
- Power Cable
- Grounding Wire
- Rack Mounting Brackets and Screws (for rack installation)



Figure 2.1: Included power cable and grounding wire.



Figure 2.2: Rack mounting brackets and associated screws for installation.

2.2 Physical Installation

The switch can be installed on a desktop or mounted in a standard 19-inch equipment rack.

2.2.1 Desktop Installation

1. Place the switch on a flat, stable surface.
2. Ensure adequate ventilation around the switch. Do not block the ventilation openings.
3. Attach the rubber feet (if provided) to the bottom of the switch to prevent slipping and provide minor elevation for airflow.

2.2.2 Rack Installation

1. Attach the rack mounting brackets to the sides of the switch using the provided screws.
2. Secure the switch into a standard 19-inch equipment rack using appropriate rack screws.
3. Ensure the switch is level and securely fastened.



Figure 2.3: Front panel of the Fiberhome S4820-X Series Switch, showing 24 RJ45 PoE ports and 4 SFP+ ports.



Figure 2.4: Rear panel of the Fiberhome S4820-X Series Switch, featuring the AC power input and grounding point.



Figure 2.5: Side view of the Fiberhome S4820-X Series Switch, showing cooling fan vents for heat dissipation.

2.3 Power Connection

1. Connect the grounding wire to the grounding point on the switch and to a proper earth ground.
2. Connect the provided power cable to the AC power input on the rear panel of the switch.
3. Plug the other end of the power cable into a grounded electrical outlet.
4. The switch will power on automatically. Observe the power indicator LED on the front panel.

2.4 Network Connections

1. Connect network devices (e.g., computers, IP cameras, wireless access points) to the RJ45 PoE ports using standard Ethernet cables.
2. For uplink connections or high-speed data transfer, use the SFP+ ports with appropriate fiber transceivers and fiber optic cables.

3. The PoE ports will automatically detect and power compatible PoE devices.

3. OPERATION

3.1 LED Indicators

The front panel features various LED indicators to monitor the status of the switch and its ports.

LED Indicator	Status	Description
Power	Green (Solid)	The switch is powered on.
System	Green (Flashing)	System is operating normally.
Link/Act (RJ45)	Green (Solid)	Port is linked.
	Green (Flashing)	Port is transmitting/receiving data.
PoE (RJ45)	Amber (Solid)	PoE power is supplied to the connected device.
Link/Act (SFP+)	Green (Solid)	SFP+ port is linked.
	Green (Flashing)	SFP+ port is transmitting/receiving data.

3.2 Management Access

The switch can be managed via a console port, Telnet, SSH, or a web-based graphical user interface (GUI). Refer to the comprehensive software configuration guide for detailed instructions on initial setup and advanced configurations.

- **Console Port:** Connect a console cable (RJ45 to DB9) from your computer to the console port on the switch. Use a terminal emulation program (e.g., PuTTY, Tera Term) with appropriate settings (e.g., 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control).
- **Web GUI:** Access the switch's web interface by entering its IP address into a web browser. The default IP address and login credentials can be found in the full product documentation.
- **Telnet/SSH:** For command-line interface (CLI) access over the network, use Telnet or SSH clients. Ensure these services are enabled and configured on the switch.

3.3 Advanced Features

The Fiberhome S4820-X series supports a range of advanced features for network optimization and security:

- **IGMP Snooping, Proxy, Filter, Fast Leave:** For robust multicast service delivery.
- **Quality of Service (QoS):** Mechanisms for tagging, classification, and scheduling to ensure transparent data flow.
- **Security Features:** Comprehensive protection against DoS attacks, port security (MAC address control), and IEEE 802.1x authentication.
- **Network Reliability:** Support for STP/RSTP/MSTP, Ethernet Ring Protection (G.8032), R-Link, and VRRP.

4. MAINTENANCE

4.1 General Care

- Keep the switch in a clean, dry environment, away from direct sunlight and heat sources.
- Ensure proper ventilation by keeping the fan vents clear of obstructions.
- Regularly inspect cables for damage and ensure secure connections.

4.2 Cleaning

- Disconnect power before cleaning.
- Use a soft, dry cloth to wipe the exterior of the switch.
- Use compressed air to gently clear dust from ventilation openings and ports. Do not use liquid cleaners or aerosols.

4.3 Firmware Updates

Periodically check the Fiberhome official website for firmware updates. Keeping the firmware up-to-date ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update package carefully.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Fiberhome S4820-X Series Gigabit PoE Switch.

5.1 Power Issues

- **No Power LED:**
 - Ensure the power cable is securely connected to both the switch and the electrical outlet.
 - Verify the electrical outlet is functional by plugging in another device.
 - Check the grounding wire connection.

5.2 Network Connectivity Issues

- **No Link/Act LED:**
 - Ensure the Ethernet cable is securely connected to both the switch port and the network device.
 - Try a different Ethernet cable.
 - Verify the connected device is powered on and functioning correctly.
 - Check the port configuration on the switch (if managed).
- **Slow Network Speed:**
 - Ensure all connected devices and cables support Gigabit speeds.
 - Check for network congestion or loops (STP/RSTP should prevent loops).
 - Verify duplex settings on both the switch port and the connected device.

5.3 PoE Issues

- **PoE Device Not Powering On:**
 - Ensure the connected device is PoE compatible (IEEE 802.3af/at).
 - Check the PoE LED for the specific port; if off, PoE is not being supplied.
 - Verify the total PoE power budget of the switch (450W) is not exceeded.
 - Try a different port or cable.

5.4 System Malfunctions

- **Switch Unresponsive:**
 - Perform a soft reboot by disconnecting and reconnecting the power cable.

- If the issue persists, consider a factory reset (refer to the full documentation for the procedure, as this will erase all configurations).

6. SPECIFICATIONS

Below are the key technical specifications for the Fiberhome S4820-28T-X-PE-AC Gigabit PoE Switch.

Feature	Detail
Model	S4820-28T-X-PE-AC
Brand	Fiberhome
Port Configuration	24 x 10/100/1000Mbps RJ45 PoE Ports, 4 x 10Gbps SFP+ Ports
PoE Power Budget	450W
Switching Capacity	High capacity (specific value not provided, but supports 10Gbit flows)
Layer Support	Layer 2 and Layer 3
Data Transfer Rate	1000 Megabits per second (per RJ45 port)
Power Supply	Fixed power supply (AC adapter and DC power can be used simultaneously)
Cooling	Automatic fan speed adjustment based on temperature
Included Components	PoE Switch, Power Cable
Color	Black
Compatible Devices	Desktop, Rack-mounted network devices

7. SUPPORT AND WARRANTY

7.1 Technical Support

For technical assistance, advanced configuration guides, or further troubleshooting, please refer to the official Fiberhome support website or contact their customer service. Detailed contact information can typically be found on the manufacturer's website or in the full product documentation.

It is recommended to have your product model number (S4820-28T-X-PE-AC) and serial number ready when contacting support.

7.2 Warranty Information

Warranty terms and conditions for the Fiberhome S4820-X Series Gigabit PoE Switch are provided by the manufacturer. Please refer to the warranty card included with your product or visit the official Fiberhome website for detailed warranty coverage, duration, and claim procedures.

Note: Information regarding spare parts availability and software updates guarantee period is not available in the provided product data. Please consult the manufacturer for the most current information.

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