

Cisco SLM248PT-NA

Cisco SF200-48P Smart Switch User Manual

Model: SLM248PT-NA

1. INTRODUCTION

The Cisco SF200-48P Smart Switch is designed to provide high network performance and reliability for small businesses. This 48-port 10/100 Fast Ethernet switch includes Power over Ethernet (PoE) capabilities and two combo Mini-GBIC uplink ports, offering essential features and easy-to-use management. It supports basic security, Quality of Service (QoS), energy-efficient technology, and IPv6, making it a robust solution for building a business-class network.

2. KEY FEATURES

- **High Performance and Reliability:** Ensures high availability and performance for critical business applications, minimizing downtime.
- **Advanced Features:** Offers advanced network traffic control with Quality of Service (QoS), Layer 3 static routing, and IPv6 support.
- **Easy Setup and Management:** Features intuitive browser-based tools, mass deployment capabilities, and consistent features across models for simplified setup and configuration.
- **Energy Efficiency:** Optimizes power usage to reduce energy costs without compromising performance, automatically powering down unused ports and adjusting power based on cable length.
- **Power over Ethernet (PoE):** Provides 24 PoE-enabled ports with a total power budget of 180W, simplifying deployment of devices like wireless access points, IP phones, and IP video cameras.

3. PRODUCT OVERVIEW



Figure 1: Front view of the Cisco SF200-48P Smart Switch.

The Cisco SF200-48P Smart Switch features a robust design with a black metal casing. The front panel includes:

- **48 x 10/100 Fast Ethernet Ports:** Arranged in two rows, these ports support data transfer at 10 or 100 Mbps. Each port has associated Link/Act (Link/Activity) and PoE (Power over Ethernet) status LEDs.
- **2 x Combo Gigabit Uplink Ports:** Labeled G1A and G2V, these ports support Gigabit Ethernet connectivity and can be used with either RJ45 copper cables or Mini-GBIC (SFP) fiber transceivers for high-speed uplinks.
- **System LED:** Indicates the overall status of the switch.
- **Reset Button:** Used to reset the device to factory default settings.

The switch is designed for rack-mounting or desktop placement, providing flexibility for various small business environments.

4. SETUP

Setting up your Cisco SF200-48P Smart Switch is designed to be straightforward:

1. **Unpacking:** Carefully remove the switch and its accessories from the packaging.
2. **Physical Placement:** Place the switch on a stable surface or mount it in a standard equipment rack. Ensure adequate ventilation around the device.
3. **Power Connection:** Connect the power cord to the switch and then to a grounded electrical outlet.
4. **Network Connections:** Connect your network devices (computers, servers, IP phones, wireless access points, IP cameras) to the 10/100 Ethernet ports using standard Ethernet cables. For high-speed connections to your core network or other switches, use the Gigabit uplink ports.
5. **Initial Configuration:** The switch can be configured using intuitive browser-based tools. Use Cisco FindIT to discover the switch's IP address on your network. Access the web-based management interface by entering the switch's IP address into a web browser. Follow the on-screen prompts for initial setup, including setting up basic network parameters, security, and QoS.

5. OPERATING PRINCIPLES

The SF200-48P operates as a smart switch, providing advanced network capabilities beyond basic plug-and-play functionality:

- **Data Forwarding:** The switch intelligently forwards data packets between connected devices at 10/100 Mbps speeds, utilizing its 13.6 Gbps switching capacity for efficient traffic handling.
- **Power over Ethernet (PoE):** For devices connected to the PoE-enabled ports, the switch supplies both data and electrical power over a single Ethernet cable, simplifying installation and reducing cabling requirements.
- **Quality of Service (QoS):** QoS features allow you to prioritize network traffic, ensuring that critical applications (such as voice and video) receive preferential bandwidth, leading to smoother performance.
- **Security:** Integrated network security features, including IEEE 802.1X port security, help control access to your network and protect against unauthorized users.
- **IPv6 Support:** The switch is ready for the next generation of internet protocols, supporting both IPv4 and IPv6 standards.

6. MAINTENANCE

To ensure optimal performance and longevity of your Cisco SF200-48P Smart Switch, consider the following maintenance practices:

- **Firmware Updates:** Regularly check the Cisco website for firmware updates. Keeping the firmware current ensures you have the latest features, security patches, and performance improvements.
- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges. Ensure proper airflow to prevent overheating.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Cable Management:** Ensure all network cables are properly routed and secured to prevent accidental disconnections or damage.
- **Energy Efficiency:** The switch incorporates energy-efficient technology that optimizes power usage. No specific user maintenance is required for this feature, but ensuring the switch is properly connected and configured allows it to function effectively.

7. TROUBLESHOOTING

If you encounter issues with your Cisco SF200-48P Smart Switch, consider the following general troubleshooting steps:

- **Check Power and Connections:** Verify that the power cord is securely connected and the System LED is illuminated. Ensure all Ethernet cables are properly seated in their respective ports and that the Link/Act LEDs are active.
- **Restart the Switch:** Power cycle the switch by disconnecting and reconnecting the power cord. This can resolve temporary software glitches.
- **Verify IP Configuration:** Ensure the switch has a valid IP address and that your management station is on the same network segment or has proper routing to access the switch's web interface.
- **Consult Web-Based Management:** The switch's intuitive web-based management interface provides diagnostic tools and status information that can help identify and resolve issues. Refer to the online help within the interface for detailed guidance.
- **Reset to Factory Defaults:** If all other troubleshooting fails, you may consider resetting the switch to its factory default settings using the Reset button. **Warning:** This will erase all custom configurations.

8. SPECIFICATIONS

Feature	Specification
Brand	Cisco
Model Number	SLM248PT-NA
Number of Ports	48 x 10/100 Fast Ethernet, 2 x Combo Gigabit (RJ45/Mini-GBIC)
Interface Type	PoE (Power over Ethernet)

Feature	Specification
Data Transfer Rate	100 Megabytes Per Second (Fast Ethernet)
Switching Capacity	13.6 Gbps
Forwarding Performance (64-byte packet size)	10.12 Mpps
Product Dimensions	14 x 2 x 17 inches
Item Weight	10 pounds
Case Material	Plastic
Upper Temperature Rating	104 Degrees Fahrenheit
Included Components	Network Switch, Accessories
Compatible Devices	Camera
Date First Available	January 25, 2011
UPC	031112357591, 882658299193, 737069067292, 132017629971

9. WARRANTY AND SUPPORT

The Cisco SF200-48P Smart Switch is backed by a **Cisco Limited Lifetime Hardware Warranty**, providing peace of mind regarding the product's reliability and performance. This warranty ensures that the switch is tested for optimal uptime and easy integration with other Cisco networking and communications products. For further information, support resources, and small business solutions, please visit the official Cisco Small Business website: www.cisco.com/go/smallbusiness.







Additionally, protection plans may be available for extended coverage:

- 4-Year Protection Plan
- Complete Protect: One plan covers all eligible past and future purchases (monthly billing)

10. VIDEO RESOURCES

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Video 1: Cisco 200 Series Smart Switch Demo. This official video provides an overview and demonstration of the features and capabilities of the Cisco 200 Series Smart Switches, including the SF200-48P model.

 <p>PA-4E 10BaseT Ethernet Port Adapter Installation and Configuration</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>PA-4E 10BaseT Ethernet Port Adapter Installation and Configuration Guide</p> <p>This guide provides detailed instructions for installing and configuring the Cisco PA-4E 10BaseT Ethernet Port Adapter on various Cisco networking platforms, including Catalyst switches and routers.</p>
 <p>Cisco 350 Series Managed Switches</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>Cisco 350 Series Managed Switches: Features, Benefits, and Specifications</p> <p>Explore the Cisco 350 Series Managed Switches, designed for small businesses seeking an ideal combination of features, affordability, and ease of use. Discover their advanced security, high reliability, power efficiency, and comprehensive product specifications.</p>
 <p>Cisco 1800 Series Integrated Services Routers</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>Cisco 1800 Series Integrated Services Routers Fixed Configuration Models - Product Overview</p> <p>Comprehensive overview of Cisco 1800 Series Fixed Configuration Integrated Services Routers (ISRs), detailing their features, specifications, network applications, security capabilities, wireless integration, and ordering information for small to medium-sized businesses and enterprise branch offices.</p>
 <p>Cisco Catalyst 9400 Series Switches</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>Cisco IOS XE Fuji 16.9.x Interface and Hardware Components Configuration Guide for Catalyst 9400 Switches</p> <p>Comprehensive guide to configuring interfaces and hardware components for Cisco Catalyst 9400 Series Switches running Cisco IOS XE Fuji 16.9.x, covering topics like VLANs, routing, PoE, and network management.</p>
 <p>Cisco Mini-GBIC SFP Transceiver</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>Cisco Mini-GBIC SFP Transceiver Quick Start Guide</p> <p>This guide provides instructions for connecting and removing Cisco Mini-GBIC SFP Transceivers, including models MGBBX1, MFEBX1, MGBLX1, MFEFX1, MFELX1, MGBSX1, MGBLH1, and MGBT1. It also includes a switch compatibility list.</p>
 <p>Cisco PA-FE-TX and Cisco PA-FE-FX Fast Ethernet 100BASE-T Port Adapters</p> <p>Document ID: 9125</p> <p>Version: 1.0</p> <p>Copyright © 2003 Cisco Systems, Inc. All rights reserved. Cisco Confidential</p>	<p>Cisco PA-FE-TX/PA-FE-FX Fast Ethernet Port Adapter Installation and Configuration Guide</p> <p>This guide provides detailed instructions for installing and configuring Cisco PA-FE-TX and Cisco PA-FE-FX Fast Ethernet 100BASE-T Port Adapters on various Cisco networking platforms. It covers hardware setup, safety, and software configuration for optimal network performance.</p>

