Cisco C9200L-48T-4G-E

Cisco Catalyst 9200L C9200L-48T-4G-E 48-Port Data 4x1G Uplink Switch User Manual

Model: C9200L-48T-4G-E

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Cisco Catalyst 9200L C9200L-48T-4G-E 48-Port Data 4x1G Uplink Switch. The Cisco Catalyst 9200L Series switches extend the power of intent-based networking and Catalyst 9000 hardware and software innovation to a broader set of deployments. With its family pedigree, Catalyst 9200L Series switches offer uncompromised simplicity without sacrificing security, always-on quality, and network resiliency.

Please read this manual thoroughly before using the device to ensure proper setup and safe operation. Keep this manual for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the equipment:

- **Electrical Safety:** Ensure the power source matches the voltage requirements of the switch. Use only the provided power cord or an approved equivalent. Do not operate the switch with a damaged power cord or plug.
- **Grounding:** Always ensure the switch is properly grounded to prevent electrical shock.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the switch to prevent overheating.
- **Environment:** Operate the switch in a clean, dry environment within the specified temperature and humidity ranges. Avoid exposure to direct sunlight, heat sources, or excessive moisture.
- **Handling:** Handle the switch with care. Avoid dropping or subjecting it to strong impacts.
- **Servicing:** Do not attempt to service the switch yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that your package contains the following items. If any item is missing or damaged, contact your supplier.

- Cisco Catalyst 9200L C9200L-48T-4G-E Switch
- Power Cord
- Rack-mount Kit (optional, may vary by package)
- Console Cable (optional)
- Documentation (Quick Start Guide, Safety Information)

4. PHYSICAL OVERVIEW

This section describes the front panel components of the Cisco Catalyst 9200L C9200L-48T-4G-E switch.
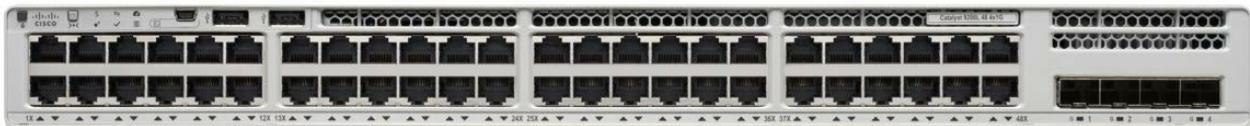

Figure 4.1: Front Panel of Cisco Catalyst 9200L C9200L-48T-4G-E Switch

The image displays the front panel of the Cisco Catalyst 9200L C9200L-48T-4G-E switch. It features 48 RJ45 Ethernet ports for data connectivity, arranged in multiple rows. To the right, there are four 1 Gigabit SFP uplink ports. Various status indicator LEDs are visible above the ports, along with a USB console port and a USB Type-A port. The overall chassis is silver-gray.

4.1 Front Panel Components

- **48 x 10/100/1000BASE-T Ports:** These RJ45 ports provide data connectivity for network devices.
- **4 x 1G SFP Uplink Ports:** These ports are used for high-speed connections to other network devices or the core network.
- **Status LEDs:** Indicators for System Status, PoE Status (if applicable), Port Status, and Stack Status. Refer to the LED indicator section for detailed descriptions.
- **USB Console Port (Mini-B):** Used for local management and configuration via a console cable.
- **USB Type-A Port:** Can be used for external storage or software upgrades.

5. SETUP

5.1 Rack Mounting (Optional)

If your package includes a rack-mount kit, follow these steps to install the switch in a standard 19-inch equipment rack:

1. Attach the rack-mount brackets to the sides of the switch using the provided screws.
2. Align the switch with the rack posts and secure it using appropriate rack screws.
3. Ensure the switch is level and securely fastened.

5.2 Connecting Power

1. Connect the provided power cord to the AC power receptacle on the rear panel of the switch.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. The switch will power on automatically. Observe the System LED for boot-up status.

5.3 Initial Network Connection

1. Connect an Ethernet cable from your computer to any of the 10/100/1000BASE-T ports on the switch for initial configuration, or use the console port.
2. For console access, connect a console cable from your computer's serial port (or USB-to-serial adapter) to the USB console port on the switch. Configure your terminal emulation software (e.g., PuTTY, Tera Term) with the following settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.
3. Connect network devices (servers, workstations, access points) to the remaining 10/100/1000BASE-T ports using standard Ethernet cables.
4. Connect uplink ports (SFP) to your core network or other switches using appropriate transceivers and fiber optic cables, or copper cables if using SFP copper modules.

6. OPERATING THE SWITCH

6.1 Power On and Boot Sequence

Once power is connected, the switch will automatically begin its boot sequence. The System LED will cycle through various states (e.g., amber, green) indicating the boot process. A solid green System LED typically indicates successful boot-up and operational status.

6.2 LED Indicators

The front panel LEDs provide real-time status information:

- **System LED:**

  - **Solid Green:** System is operating normally.
  - **Flashing Green:** System is booting or performing diagnostics.
  - **Amber:** System fault or error.

- **Port Status LEDs (per RJ45 port):**

  - **Solid Green:** Link established.
  - **Flashing Green:** Activity on the port.
  - **Off:** No link or port disabled.

- **SFP Uplink Port LEDs:** Similar to RJ45 port LEDs, indicating link and activity for the SFP modules.

6.3 Basic Configuration

Initial configuration is typically performed via the console port or a web interface (if enabled and configured). Refer to the Cisco IOS XE documentation for detailed configuration commands and procedures. Common initial tasks include:

- Setting hostname and basic network parameters (IP address, subnet mask, default gateway).
- Configuring user accounts and passwords.
- Enabling management interfaces (Telnet, SSH, HTTP/HTTPS).
- Configuring VLANs and port assignments.

7. MAINTENANCE

7.1 Cleaning

To maintain optimal performance and extend the lifespan of your switch:

- Periodically clean the exterior of the switch with a soft, dry, lint-free cloth.
- Ensure ventilation openings are free from dust and debris. Use compressed air to gently clear dust if necessary, holding the can upright to prevent propellant discharge.
- Do not use liquid or aerosol cleaners directly on the switch.

7.2 Firmware Updates

Regularly check the Cisco support website for the latest firmware updates. Keeping your switch's firmware up-to-date ensures optimal performance, security, and access to new features. Follow Cisco's official documentation for firmware upgrade procedures to avoid potential issues.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Switch does not power on.	No power, faulty power cord, or power supply issue.	- Check power cord connection to the switch and outlet. - Verify the power outlet is functional. - Try a different power cord.
No link light on a connected port.	Incorrect cable, faulty cable, device not powered on, or port disabled.	- Ensure the connected device is powered on. - Check the Ethernet cable for damage and proper connection. - Try a different cable or port. - Verify the port is enabled in the switch configuration.

Problem	Possible Cause	Solution
Cannot access switch via console.	Incorrect console cable, wrong terminal settings, or driver issue.	• Ensure you are using the correct console cable (USB Mini-B). • Verify terminal emulation software settings (9600, 8, N, 1, No Flow Control). • Install or update USB serial drivers for your computer.
Network devices not receiving IP addresses.	DHCP server issue, VLAN configuration, or cable problem.	• Verify your DHCP server is operational and reachable. • Check VLAN configurations on the switch and connected devices. • Ensure cables are properly connected and functional.

For more advanced troubleshooting, consult the official Cisco documentation or contact Cisco support.

9. SPECIFICATIONS

Feature	Description
Model Number	C9200L-48T-4G-E
Brand	Cisco
Number of Ports	48 (RJ45) + 4 (Uplink)
Data Transfer Rate	4 Gigabits Per Second (Uplink)
Interface Type	RJ45, SFP
Product Dimensions	17.52 x 11.34 x 1.73 inches
UPC	649661944256
Manufacturer	CISCO SYSTEMS - ENTERPRISE
Color	Gray
Compatible Devices	Desktop (general networking use)

10. WARRANTY AND SUPPORT

This product is a renewed item. Warranty and support terms may differ from new products. Please refer to the specific warranty information provided by the seller (e.g., Amazon Renewed Guarantee) at the time of purchase. For technical support related to the Cisco IOS XE software or hardware functionality, it is recommended to consult Cisco's official documentation and support resources. If the product was purchased through a reseller, contact them for initial support inquiries.

Cisco Support Website: https://www.cisco.com/c/en/us/support/index.html