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## Cisco C9200L-48P-4X-E

# Cisco Catalyst C9200L-48P-4X-E Switch User Manual

Model: C9200L-48P-4X-E | Brand: Cisco

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Cisco Catalyst C9200L-48P-4X-E Layer 3 Switch. The Catalyst 9200 Series switches are designed to extend intent-based networking capabilities, offering a secure, always-on, and simplified IT experience. This model features 48 Gigabit Ethernet network ports and 4 x 10 Gigabit Ethernet uplink ports, with full PoE+ capability.



Figure 1: Front Panel of the Cisco Catalyst C9200L-48P-4X-E Switch. This image displays the 48 Gigabit Ethernet ports arranged in two rows, along with four 10-Gigabit uplink ports on the right side. Various status LEDs and console ports are also visible on the left.

## 2. SAFETY INFORMATION

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Please read all safety warnings and instructions before installing, operating, or servicing this equipment. Failure to follow these instructions could result in injury or damage to the product.

- Ensure the power source meets the specified voltage and current requirements.
- Do not operate the switch in environments with excessive heat, humidity, or dust.
- Always disconnect power before cleaning or performing maintenance.
- Use only approved cables and accessories.
- Properly ground the equipment to prevent electrical shock.

## 3. PACKAGE CONTENTS

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Verify that your package contains the following items:

- Cisco Catalyst C9200L-48P-4X-E Switch
- Power Cord
- Rack-mount Kit (brackets, screws)
- Console Cable (RJ-45 to DB-9)
- Documentation (Quick Start Guide, Safety Information)

## 4. SETUP AND INSTALLATION

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### 4.1. Site Preparation

Before installation, ensure the installation site meets the following requirements:

- Adequate ventilation to prevent overheating.
- Stable power source with proper grounding.
- Operating temperature between 0°C to 45°C (32°F to 113°F).
- Relative humidity between 5% to 95% (non-condensing).

### 4.2. Rack Mounting

1. Attach the provided rack-mount brackets to the sides of the switch using the included 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.

### 4.3. Connecting Power

1. Connect one end of the power cord to the AC power connector on the rear of the switch.
2. Connect the other end of the power cord to a grounded electrical outlet.
3. The switch will power on automatically. Observe the system LED for status.

### 4.4. Initial Network Connection

1. Connect a standard Ethernet cable from your management workstation to any of the Gigabit Ethernet ports on the switch.
2. Alternatively, connect a console cable (RJ-45 to DB-9) from your workstation's serial port to the console port on the switch for command-line interface (CLI) access.
3. Configure your workstation's serial port settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Powering On and Off

- **Power On:** Connect the power cord to a power source. The switch will automatically power on.
- **Power Off:** Disconnect the power cord from the electrical outlet. For controlled shutdown, use the appropriate CLI commands before disconnecting power.

### 5.2. LED Indicators

The front panel LEDs provide status information:

- **System LED:** Indicates overall system status (e.g., green for normal operation, amber for fault).
- **Port Status LEDs:** Indicate link status and activity for each network port (e.g., green for link, blinking green for activity).
- **PoE LED:** Indicates Power over Ethernet status.

## 5.3. Connecting Network Devices

Connect Ethernet devices (computers, servers, access points) to the 48 Gigabit Ethernet ports using standard RJ-45 cables. For high-speed uplinks, use appropriate transceivers and fiber optic cables in the 10 Gigabit Ethernet uplink ports.

## 5.4. Management Access

The switch can be managed via:

- **Console Port:** For initial setup and direct CLI access.
- **Web-based Interface (GUI):** Access via a web browser after initial IP configuration.
- **Secure Shell (SSH):** For secure remote CLI access.

# 6. MAINTENANCE

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## 6.1. Cleaning the Switch

- Ensure the switch is powered off and disconnected from all power sources before cleaning.
- Use a soft, dry, lint-free cloth to wipe the exterior surfaces.
- Do not use liquid or aerosol cleaners directly on the switch.
- Periodically check ventilation openings for dust accumulation and clean with compressed air if necessary.

## 6.2. Firmware Updates

Regularly check the Cisco support website for the latest firmware updates. Applying updates can improve performance, add new features, and address security vulnerabilities. Follow the specific instructions provided with each firmware release for the update process.

## 6.3. Environmental Considerations

Maintain the switch within its specified operating environment to ensure optimal performance and longevity. Avoid exposing the switch to extreme temperatures, direct sunlight, or high humidity.

# 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Switch does not power on.	No power, faulty power cord, or power supply issue.	Check power cord connection. Verify power outlet functionality. Ensure power supply is correctly installed.
No network connectivity on a port.	Incorrect cable, faulty cable, port disabled, or incorrect configuration.	Verify cable connection and integrity. Check port status LEDs. Ensure port is enabled and configured correctly. Try a different port or cable.
System LED is amber.	System fault or warning.	Consult the Cisco documentation for specific amber LED patterns. Check system logs via CLI or web interface for error messages.
Slow network performance.	Network congestion, duplex mismatch, or faulty cable.	Check network utilization. Verify duplex settings on connected devices. Inspect cables for damage.

# 8. SPECIFICATIONS

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Feature	Detail
Model Number	C9200L-48P-4X-E

Feature	Detail
Brand	Cisco
Product Type	Layer 3 Switch
Total Network Ports	48 x Gigabit Ethernet
Uplink Ports	4 x 10 Gigabit Ethernet
PoE+ Capability	Yes (Full PoE+)
Stack Port	Yes
Modular	Yes
Memory Storage Capacity	2048 MB
Product Dimensions	19"L x 24"W x 8"H
Item Weight	4.8 Kilograms (10.56 pounds)
Case Material	Metal
Interface Type	RJ45
Data Transfer Rate	1 Gigabits Per Second (per Gigabit port)
UPC	889728170192
Date First Available	February 19, 2019

## 9. WARRANTY INFORMATION

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Cisco products typically come with a limited hardware warranty. For detailed information regarding the warranty period, coverage, and terms and conditions for your Cisco Catalyst C9200L-48P-4X-E Switch, please refer to the official Cisco warranty documentation included with your product or visit the Cisco website.

*Please retain your proof of purchase for warranty claims.*

## 10. TECHNICAL SUPPORT

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For technical assistance, product documentation, software downloads, and further support resources, please visit the official Cisco Support website:

<https://www.cisco.com/c/en/us/support/index.html>

When contacting support, please have your product model number (C9200L-48P-4X-E) and serial number readily available.