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- Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch User Manual

## Cisco C9200L-24T-4X

# Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch User Manual

Model: C9200L-24T-4X

## 1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch. Designed for network professionals, this guide ensures proper deployment and management of your network infrastructure. The Cisco Catalyst 9200 Series switches extend the capabilities of intent-based networking, offering a secure, always-on, and simplified IT experience. These switches are foundational building blocks for the Cisco Digital Network Architecture, helping to reduce operational costs and optimize IT operations through intelligence and automation.

## 2. SAFETY INFORMATION

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

- Ensure proper grounding of the switch.
- Do not operate the switch in wet or damp conditions.
- Disconnect power before performing any maintenance or installation procedures.
- Use only approved power cords and accessories.
- Install the switch in a well-ventilated area to prevent overheating.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch
- Power cord
- · Rack-mount kit (if applicable)
- Console cable
- Documentation (Quick Start Guide, Safety Information)

## 4. PRODUCT OVERVIEW

The Cisco Catalyst 9200 C9200L-24T-4X is a Layer 3 switch designed for robust network performance and security. It features 24 Gigabit Ethernet network ports and 4 x 10 Gigabit Ethernet uplink ports, supporting modular uplinks and stacking capabilities.

## 4.1 Front Panel Layout

The front panel of the switch provides access to network ports, uplink ports, and status indicators.



Figure 1: Front view of the Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch, showing 24 Gigabit Ethernet ports and 4 x 10 Gigabit Ethernet uplink ports.

Key features visible on the front panel include:

- 24 x Gigabit Ethernet Network Ports (RJ45)
- 4 x 10 Gigabit Ethernet Uplink Ports (SFP+)
- Console Port (RJ45)
- USB Ports (Type A and Type B)
- System Status LEDs

# 4.2 Angled View

An angled view provides a better perspective of the switch's overall design and port layout.



Figure 2: Angled view of the Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch, highlighting the port configuration and chassis design.

## 4.3 Dimensions

Understanding the physical dimensions is crucial for proper rack installation and space planning.



Figure 3: Dimensions of the Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch, showing approximate measurements of 17.5 inches in width, 17.5 inches in depth, and 4.4 inches in height.

## 5. SETUP

## 5.1 Rack Mounting

The switch is designed for standard 19-inch rack installation. Use the provided rack-mount kit to secure the switch in a server rack. Ensure adequate space for airflow around the unit.

- 1. Attach the rack-mount brackets to the sides of the switch using the supplied screws.
- 2. Align the switch with the rack posts and secure it using appropriate rack screws.

## **5.2 Power Connection**

Connect the power cord to the AC power inlet on the rear of the switch and then to a grounded electrical outlet. The switch supports redundant power supplies for enhanced reliability.

#### 5.3 Network Connections

Connect network devices to the 24 Gigabit Ethernet ports using standard RJ45 Ethernet cables. For high-speed connectivity to other switches or servers, use the 4 x 10 Gigabit Ethernet uplink ports with appropriate SFP+ transceivers and fiber optic or direct attach copper cables.

# 6. OPERATING THE SWITCH

# 6.1 Powering On

After connecting the power, the switch will automatically power on. Observe the system status LEDs on the front panel to confirm successful boot-up.

# **6.2 Initial Configuration**

Access the switch for initial configuration via the console port using a terminal emulator (e.g., PuTTY, Tera Term) with the following settings:

• Baud Rate: 9600

• Data Bits: 8

Parity: NoneStop Bits: 1

· Flow Control: None

Alternatively, if the switch has a default IP address and is reachable on the network, you can access the web-based management interface or SSH/Telnet for configuration.

## 7. MAINTENANCE

## 7.1 Cleaning

Regularly clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain optimal airflow.

## 7.2 Firmware Updates

Periodically check the Cisco support website for the latest firmware updates. Applying updates can improve performance, add new features, and address security vulnerabilities. Follow Cisco's official documentation for firmware upgrade procedures.

## 8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

#### 8.1 Power Issues

- **No Power:** Verify the power cord is securely connected to both the switch and the power outlet. Check the power source and circuit breaker.
- System LED Off: If the system LED is off after power-on, ensure the power supply is functioning correctly.

# **8.2 Network Connectivity Issues**

- No Link on Port: Check the Ethernet cable connection to the device and the switch port. Verify the
  connected device is powered on and functioning. Inspect the port status LED for activity.
- Slow Performance: Ensure cables are of appropriate quality and length. Check for duplex mismatches or port errors.

## **8.3 Console Access Problems**

• **Garbled Output:** Verify the console cable is correctly connected and the terminal emulator settings (baud rate, data bits, parity, stop bits, flow control) match those specified in Section 6.2.

# 9. SPECIFICATIONS

The following table details the technical specifications of the Cisco Catalyst 9200 C9200L-24T-4X Layer 3 Switch.

Feature	Specification
Model	C9200L-24T-4X
Total Network Ports	24 x Gigabit Ethernet
Uplink Ports	4 x 10 Gigabit Ethernet
Data Transfer Rate	10 Gigabits Per Second (Uplink)
Interface Type	RJ45 (Network), SFP+ (Uplink)
Modular	Yes
Stack Port	Yes
Product Dimensions (L x W x H)	24"L x 19"W x 8"H
Item Weight	5.46 pounds (2.48 Kilograms)
Case Material	Metal
Upper Temperature Rating	60 Degrees Celsius
UPC	889728170130

## 10. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official Cisco warranty statement available on their website. Cisco provides extensive technical support resources, including documentation, software downloads, and customer service.

Visit the Cisco Support Website for assistance, product updates, and additional resources.

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#### Related Documents - C9200L-24T-4X



#### Cisco Catalyst 9200 Switch Datasheet

A comprehensive datasheet detailing the Cisco Catalyst 9200 Series switches, covering features, specifications, platform details, accessories, licensing, and ordering information for enterprise network deployments.



## Cisco Catalyst 9200 Series Switches Release Notes: Cisco IOS XE Cupertino 17.9.x

Detailed release notes for Cisco Catalyst 9200 Series Switches running Cisco IOS XE Cupertino 17.9.x, covering new features, hardware and software behavior changes, limitations, and resolved caveats.



## Cisco Catalyst 9200 Series Switches Ordering Guide

Comprehensive guide for ordering Cisco Catalyst 9200 Series switches, detailing hardware, software subscriptions (Cisco DNA Premier, Advantage, Essentials), licensing, services, and distribution ordering options. Includes product SKUs and ordering procedures.



#### Cisco Catalyst 9200 Series Switches Product Overview

This document provides a product overview of the Cisco Catalyst 9200 Series switches, detailing various models, front and rear panel components, port types, power supply modules, fan modules, and management interfaces. It includes technical specifications and compatibility information for network modules and transceiver modules.



#### Cisco Catalyst 9200 Series Switches Ordering Guide

Comprehensive guide to ordering Cisco Catalyst 9200 Series Switches, detailing hardware, software, licensing options (Cisco DNA Essentials/Advantage), and services. Learn about Smart Licensing and Cisco Commerce Workspace.

Recommended Releases for Catalyst 9200/9300/9400/9500/9600 and Catalyst

Introduction Special State Assessment Engineering Special Releases Commissions

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Clisco IOS XE Software Support

## Recommended Software Releases for Cisco Catalyst Enterprise Switching Platforms

Find stable Cisco IOS XE software release recommendations for Catalyst 9000 series (9200, 9300, 9400, 9500, 9600) and Catalyst 3650/3850 platforms. Includes details on Standard Maintenance Releases (SMR), Extended Maintenance Releases (EMR), engineering special releases, and open caveats.