

## Cisco C9200-24T

# Cisco Catalyst C9200-24T Layer 3 Switch User Manual

Model: C9200-24T | Brand: Cisco

## INTRODUCTION

This manual provides essential instructions for the setup, operation, and maintenance of the Cisco Catalyst C9200-24T Layer 3 Switch. The Catalyst 9200 Series switches extend intent-based networking capabilities, offering a secure, always-on, and simplified IT experience. Designed as a foundational building block for the Cisco Digital Network Architecture, this switch helps optimize IT operations and reduce costs through intelligence and automation.

Key features include:

- Layer 3 switching for efficient network connections.
- 24 networking ports for demanding workgroups.
- Stack port for network extension.
- Rack mounting capability for professional installation.
- Gigabit Ethernet ports for high-speed data transfer.
- Support for cost-efficient twisted pair cables up to 100 meters.

## SETUP

### 1. Unpacking the Switch

Carefully remove the Cisco Catalyst C9200-24T switch from its packaging. Inspect the device for any signs of damage that may have occurred during shipping. Retain all packaging materials for future transport or storage.

### 2. Physical Installation

The C9200-24T switch is designed for rack mounting.

- Ensure the rack is stable and properly grounded.
- Mount the switch securely using the provided rack-mount kit.
- Allow adequate space around the switch for ventilation and cable management.



**Image 1:** Front view of the Cisco Catalyst C9200-24T Layer 3 Switch, showing 24 network ports, uplink ports, and status indicators.



**Image 2:** Angled view of the Cisco Catalyst C9200-24T Layer 3 Switch, highlighting its compact design suitable for rack installation.

### 3. Connecting Network Cables

Connect your network devices to the 24 Gigabit Ethernet ports on the front panel using standard twisted pair cables. The switch also features dedicated uplink ports and a stack port for expanding network capabilities.

- **Network Ports:** Connect end devices (computers, servers, access points) to the 24 RJ-45 ports.
- **Uplink Ports:** Use these ports to connect to higher-level network devices like routers or core switches.
- **Stack Port:** For connecting multiple C9200-24T switches to form a single logical unit, increasing bandwidth and redundancy.

### 4. Power Connection

Connect the power supply cable to the power inlet on the rear of the switch and then to a grounded electrical outlet. The switch is designed with power redundancy capabilities to ensure continuous operation.

## OPERATING THE SWITCH

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Once powered on, the Cisco Catalyst C9200-24T switch will initiate its boot sequence. Status indicator LEDs on the front panel will provide information on the device's operational status and port activity.

- **Layer 3 Routing:** This switch supports Layer 3 routing, enabling scalable network designs and efficient data forwarding between different network segments.
- **High-Speed Data Transfer:** Utilize the Gigabit Ethernet ports for ultra-fast network speeds, supporting data transfer up to 100 meters with twisted pair cables.
- **Management Interface:** Access the switch's management interface (e.g., command-line interface via console port, or web-based interface via network) for configuration, monitoring, and advanced settings. Refer to the Cisco documentation for detailed configuration guides.

## MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your Cisco Catalyst C9200-24T switch.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions. *Do not use liquid cleaners directly on the device.*
- **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 Cisco's official update procedures carefully.

- **Environmental Conditions:** Ensure the switch operates within recommended temperature and humidity ranges to prevent overheating and component damage.

## TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues. For complex problems, consult Cisco's official documentation or technical support.

- **No Power:**
  1. Verify the power cable is securely connected to both the switch and the power outlet.
  2. Check if the power outlet is functional by plugging in another device.
  3. Ensure the power supply unit (if external) is correctly installed and functioning.
- **No Network Connectivity:**
  1. Check the link status LEDs on the switch ports. A solid green or amber light typically indicates a valid connection.
  2. Ensure network cables are properly seated and not damaged.
  3. Verify IP configurations on connected devices and the switch.
  4. Test connectivity with different cables or ports.
- **Slow Network Performance:**
  1. Check for excessive network traffic or broadcast storms.
  2. Ensure duplex settings match between the switch port and the connected device.
  3. Verify that the switch firmware is up to date.

## SPECIFICATIONS

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The following table details the technical specifications for the Cisco Catalyst C9200-24T Layer 3 Switch.

| Feature                        | Specification  |
|--------------------------------|--|
| Brand                          | Cisco  |
| Model Number                   | C9200-24T  |
| Number of Ports                | 24   |
| Interface Type                 | Stack Port, Uplink Port                              |
| Product Dimensions (L x W x H) | 13.8" x 17.5" x 1.7" (35.05 cm x 44.45 cm x 4.32 cm) |
| Item Weight                    | 11.02 pounds (5000 Grams)                            |
| Maximum Power Consumption      | 125 Watts  |
| UPC                            | 889728168229   |
| Manufacturer                   | CISCO SYSTEMS - ENTERPRISE                           |

| Feature            | Specification   |
|--------------------|---|
| Compatible Devices | Desktop (Note: Refers to network compatibility, not physical desktop placement) |



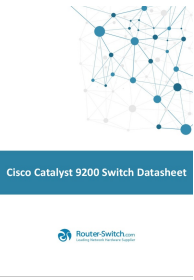
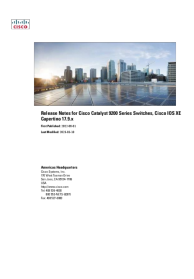

Image 3: Diagram illustrating the dimensions of the Cisco Catalyst C9200-24T Layer 3 Switch: 17.5 inches (width), 13.8 inches (depth), and 1.7 inches (height).

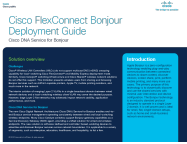


WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation provided with your purchase or visit the official Cisco website. Warranty terms and conditions may vary based on region and vendor.

For technical support, product registration, and additional resources, please visit the Cisco support portal or contact your authorized Cisco reseller.

Related Documents - C9200-24T

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|---|--|
|  | <p><a href="#">Cisco Catalyst 9200 Switch Datasheet</a></p> <p>A comprehensive datasheet detailing the Cisco Catalyst 9200 Series switches, covering features, specifications, platform details, accessories, licensing, and ordering information for enterprise network deployments.</p>  |
|  | <p><a href="#">Cisco Catalyst 9200 Series Switches Release Notes: Cisco IOS XE Cupertino 17.9.x</a></p> <p>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.</p>                   |
|  | <p><a href="#">Cisco K-12 EDU SKU Product Family: Switching and Wireless Solutions</a></p> <p>Explore the Cisco K-12 EDU SKU Product Family, featuring specialized switching and wireless solutions designed for educational institutions. This guide details product families, support matrices, SKU lists, and E-Rate eligibility.</p> |

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|--|---|
|    | <p><a href="#">Cisco FlexConnect Bonjour Deployment Guide for Cisco DNA Service</a></p> <p>A comprehensive guide detailing the deployment of Cisco DNA Service for Bonjour with Cisco FlexConnect wireless networks, enabling seamless service discovery and distribution across wired and wireless environments.</p>   |
|   | <p><a href="#">Cisco Catalyst 9200 Series Switches Product Overview</a></p> <p>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.</p> |
|  | <p><a href="#">Cisco Automated Frequency Coordination: Configuration and Management</a></p> <p>This document provides a comprehensive overview of Cisco's Automated Frequency Coordination (AFC) system for 6-GHz Wi-Fi deployments. Learn about AFC architecture, configuration procedures via GUI and CLI, prerequisites, and verification commands to ensure optimal spectrum utilization and minimize interference.</p>   |