Cisco C9300-24T-A

Cisco Catalyst 9300 Series Switch User Manual

Model: C9300-24T-A

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Cisco Catalyst 9300 Series Switch, model C9300-24T-A. The Catalyst 9300 Series is designed for enterprise-class access, aggregation, and core deployments, offering advanced networking features and performance.
The C9300-24T-A is a 24-port data-only switch, part of the Network Advantage license tier, providing robust and secure network connectivity.

2. SAFETY INFORMATION

Important Safety Instructions:

- Always follow local and national electrical codes.
- Ensure proper grounding of the equipment.
- Do not operate the switch near water or in excessively humid environments.
- Use only the power supply provided or specified by the manufacturer.
- Disconnect power before cleaning or servicing the device.
- This product is intended for indoor use only.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco Catalyst 9300-24T-A Switch
- Power Cord
- Rack-mount Kit (brackets, screws)
- Console Cable (RJ-45 to DB-9)
- Documentation (Quick Start Guide, Safety Information)

Note: Contents may vary slightly depending on the region and specific bundle.

4. PHYSICAL DESCRIPTION

The Cisco Catalyst C9300-24T-A switch features 24 Gigabit Ethernet network ports and supports stacking capabilities.

Figure 4.1: Front view of the Cisco Catalyst C9300-24T-A switch, showing 24 Gigabit Ethernet ports and status indicators.

4.1 Front Panel Features

- **24 x Gigabit Ethernet Network Ports:** RJ-45 ports for connecting network devices.
- **Uplink Port:** Dedicated ports for connecting to higher-level network devices.
- **Status LEDs:** Indicators for system status, port status, and power.

4.2 Rear Panel Features

- **Power Connector:** For connecting the AC power cord.
- **Console Port:** RJ-45 port for local management and initial configuration.
- **USB Ports:** For external storage or console access.

- **Stack Port:** Ports for connecting multiple switches in a stack.

5. Setup and Installation

5.1 Site Preparation

- Ensure adequate ventilation and airflow around the switch.
- Maintain appropriate operating temperature and humidity.
- Provide a stable, level surface or a standard 19-inch equipment rack.
- Ensure a reliable power source with proper grounding.

5.2 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.

5.3 Connecting Power

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

5.4 Connecting Network Cables

- Connect Ethernet cables from your network devices (computers, servers, access points) to the 24 Gigabit Ethernet ports on the front panel.
- For uplink connections to other switches or routers, use the designated uplink ports.
- Ensure cables are securely seated.

5.5 Initial Configuration Access

To perform initial configuration, connect a computer to the console port using the provided console cable. Use a terminal emulation program (e.g., PuTTY, Tera Term) with the following settings:

- Baud Rate: 9600
- Data Bits: 8
- Parity: None
- Stop Bits: 1
- Flow Control: None

Refer to the Cisco IOS XE documentation for detailed configuration procedures.

6. Operation

6.1 Powering On/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.

6.2 LED Indicators

The front panel LEDs provide visual status of the switch operation:

- **System LED:** Indicates overall system health (e.g., green for normal, amber for warning, red for critical).
- **Port Status LEDs:** Indicate link status and activity for each network port (e.g., green for link, blinking for activity, off for no link).
- **Stack LED:** Indicates the status of the switch within a stack.

Refer to the Cisco documentation for a complete description of LED behavior.

7. MAINTENANCE

7.1 Cleaning

- Ensure the switch is powered off and disconnected from the power source before cleaning.
- Use a soft, dry cloth to wipe the exterior of the switch.
- Do not use liquid or aerosol cleaners directly on the switch.
- Keep ventilation openings clear of dust and debris.

7.2 Firmware Updates

Regularly check the Cisco support website for the latest firmware (IOS XE) updates. Applying updates can improve performance, add features, and address security vulnerabilities. Follow Cisco's official procedures for firmware upgrades to avoid system disruption.

7.3 Environmental Considerations

Maintain the operating environment within specified temperature and humidity ranges to ensure optimal performance and longevity of the switch.

8. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, consult Cisco's official documentation or technical support.

Problem	Possible Cause	Solution
Switch does not power on.	No power, faulty power cord, or power supply issue.	Verify power cord connection. Check power outlet. Test with a different power cord if available.
No link light on a connected port.	Incorrect cable, faulty cable, device not powered on, or port disabled.	Ensure cable is correctly connected. Try a different cable. Verify the connected device is powered on. Check port status in CLI.
Cannot access switch via console.	Incorrect console cable, wrong terminal settings, or faulty console port.	Ensure correct console cable (RJ-45 to DB-9). Verify terminal emulation settings (9600, 8, N, 1).

8.1 Factory Reset

Performing a factory reset will erase all configurations and restore the switch to its default settings. This procedure should only be performed if necessary and with caution. Consult Cisco documentation for the specific CLI commands to perform a factory reset for the Catalyst 9300 series.

9. SPECIFICATIONS

Feature	Detail

Feature	Detail
Model Number	C9300-24T-A
Total Number of Network Ports	24
Port/Expansion Slot Details	24 x Gigabit Ethernet Network
Uplink Port	Yes
Stack Port	Yes
Modular	No
Interface Type	RJ45
Case Material	Metal
Product Dimensions	17.52 x 17.52 x 1.73 inches (44.5 x 44.5 x 4.4 cm)
Item Weight	51.5 pounds (23.4 kg)
UPC	714752589309
Manufacturer	CISCO SYSTEMS - ENTERPRISE

10. WARRANTY AND SUPPORT

This product is offered as an Amazon Renewed item. Amazon Renewed products are professionally inspected and tested to work and look like new. They are eligible for replacement or refund under the Amazon Renewed Guarantee if you are not satisfied with your purchase.

For specific warranty details related to the Amazon Renewed program, please refer to the Amazon Renewed Guarantee documentation provided at the time of purchase or on the Amazon website.

For technical support related to the Cisco Catalyst 9300 Series Switch's features and configuration, please consult the official Cisco documentation available on the Cisco website or contact Cisco technical support.