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## Cisco C9300-48UN-A

# Cisco Catalyst 9300-48UN-A Network Switch User Manual

Model: C9300-48UN-A

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## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Cisco Catalyst 9300-48UN-A Network Switch. The Catalyst 9300 Series is designed for enterprise-grade networking, offering high-performance 5G UPoE ports and advanced Network Advantage software for robust and secure network solutions.

## 2. SAFETY INFORMATION

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

- Ensure proper grounding before connecting power.
- Do not operate the switch in wet or excessively humid environments.
- Use only the power supply provided or approved by the manufacturer.
- Avoid blocking ventilation openings to prevent overheating.
- Disconnect all power before servicing or moving the device.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco Catalyst 9300-48UN-A Network Switch
- Power Cord
- Rack-mount Kit (brackets, screws)
- Console Cable (RJ-45 to DB-9)
- Documentation (Quick Start Guide, Safety Information)

## 4. PHYSICAL DESCRIPTION

The Cisco Catalyst 9300-48UN-A switch features 48 multi-gigabit ports with UPoE capabilities and modular uplinks. Below is a general overview of the device.



Figure 1: Front panel of the Cisco Catalyst 9300-48UN-A switch. This image displays the 48 UPoE-capable Ethernet ports, various status indicator LEDs, and potentially modular uplink slots on the right side. The overall design is typical of a rack-mountable network switch.

### Front Panel Features:

- **48 x 5G UPoE Ports:** RJ-45 ports supporting multi-gigabit speeds and Universal Power over Ethernet (UPoE) for connected devices.
- **Status LEDs:** Indicators for System, RPS, Status, Duplex, Speed, PoE, and Stack. Refer to the LED Status section for detailed explanations.
- **USB Type-A Port:** For external storage or software upgrades.
- **USB Mini-B Console Port:** For direct console access and initial configuration.

### Rear Panel Features:

- **Modular Uplink Slots:** For installing optional uplink modules (e.g., 10G, 25G, 40G, 100G).
- **Power Supply Slots:** For redundant power supplies.
- **Fan Modules:** Hot-swappable fan modules for cooling.
- **Management Port:** Dedicated Ethernet port for out-of-band management.
- **StackWise-160/480 Ports:** For stacking multiple switches.

## 5. SETUP

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### 5.1 Mounting the Switch

The Catalyst 9300-48UN-A can be mounted in a standard 19-inch equipment rack or placed on a desktop.

#### Rack Mounting:

1. Attach the provided rack-mount brackets to the sides of the switch using the included screws.
2. Secure the switch into the rack using appropriate rack screws. Ensure the switch is level and fully supported.

#### Desktop Mounting:

Place the switch on a flat, stable surface, ensuring adequate ventilation around the device.

### 5.2 Connecting Power

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

### 5.3 Connecting Network Cables

- **Data Ports (RJ-45):** Connect Ethernet cables from your network devices (computers, access points, IP phones) to the 48 UPoE ports on the front panel. These ports provide both data and power.
- **Uplink Ports:** Install appropriate uplink modules (if not pre-installed) into the modular uplink slots. Connect fiber or copper cables from these uplink ports to your core network or other switches.
- **Management Port:** For out-of-band management, connect an Ethernet cable from your management workstation to the dedicated management port on the rear panel.

### 5.4 Initial Configuration Access

To perform initial configuration, connect a console cable from your computer's serial port (or USB-to-serial adapter) to the USB Mini-B console port on the switch's front panel. 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

## 6. OPERATING THE SWITCH

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### 6.1 Power On/Off

The switch powers on automatically when connected to a power source. To power off, disconnect the power cord. For graceful shutdown, it is recommended to use the command-line interface (CLI) to save configurations before disconnecting power.

### 6.2 LED Indicators

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

- **System LED:** Indicates overall system status (Green: Normal, Amber: Fault).
- **RPS LED:** Redundant Power System status.

- **Status LED:** General port status.
- **Duplex LED:** Indicates port duplex mode (e.g., Full, Half).
- **Speed LED:** Indicates port speed (e.g., 1G, 5G).
- **PoE LED:** Indicates Power over Ethernet status for UPoE ports.
- **Stack LED:** Indicates stacking status when multiple switches are connected in a stack.

## 6.3 Basic Network Configuration

The Cisco Catalyst 9300-48UN-A operates with Cisco IOS XE software. Configuration is primarily performed via the Command Line Interface (CLI) or through Cisco DNA Center. Key configuration areas include:

- **IP Addressing:** Assigning IP addresses to VLAN interfaces for management and routing.
- **VLANs:** Creating and assigning Virtual Local Area Networks to segment traffic.
- **Routing:** Configuring Layer 3 routing protocols (e.g., OSPF, EIGRP) enabled by Network Advantage.
- **Security:** Implementing features like MACsec, TrustSec, and port security.
- **PoE Configuration:** Managing power allocation and priority for UPoE devices.

For detailed configuration steps, refer to the official Cisco documentation and configuration guides available on the Cisco website.

## 7. MAINTENANCE

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### 7.1 Firmware Updates

Regularly check the Cisco support website for the latest firmware updates. Keeping the switch firmware up-to-date ensures optimal performance, security, and access to new features. Follow Cisco's recommended procedures for software upgrades to avoid service interruptions.

### 7.2 Cleaning

Periodically clean the exterior of the switch with a soft, dry, lint-free cloth. Do not use liquid or aerosol cleaners directly on the device. Ensure ventilation openings are free from dust and obstructions.

### 7.3 Environmental Considerations

Operate the switch within its specified temperature and humidity ranges. Ensure proper airflow and avoid placing the switch near heat sources or in direct sunlight.

## 8. TROUBLESHOOTING

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

### 8.1 No Power

- Verify the power cord is securely connected to both the switch and the power outlet.
- Check the power outlet with another device to ensure it is functional.
- Ensure the power supply unit (PSU) is properly seated in its slot.
- Check the System LED. If it is off, there is no power or a critical hardware failure.

### 8.2 No Network Connectivity on a Port

- Check the Ethernet cable for damage and ensure it is securely connected at both ends.

- Verify the link/activity LED for the specific port. If off, there is no link.
- Ensure the connected device is powered on and functioning correctly.
- Check the switch configuration for the port (e.g., shutdown state, VLAN assignment).

### 8.3 UPoE Device Not Receiving Power

- Ensure the connected device is UPoE compatible.
- Check the PoE LED for the port.
- Verify the PoE configuration on the switch to ensure power is enabled and sufficient budget is available.
- Try a different UPoE port or cable.

## 9. SPECIFICATIONS

Feature	Description
Model Number	C9300-48UN-A
Number of Ports	48
Interface Type	PoE+, RJ45
Product Dimensions	17.52 x 17.52 x 1.73 inches
Item Weight	16.7 pounds (7.59 Kilograms)
Upper Temperature Rating	40 Degrees Celsius
Compatible Devices	Desktop, Laptop, Printer
Manufacturer	CISCO SYSTEMS - ENTERPRISE
GTIN (UPC)	649661944317

## 10. WARRANTY AND SUPPORT

### 10.1 Warranty Information

This Cisco product, when purchased as "Renewed," typically comes with a limited warranty provided by the seller or Amazon Renewed program. Please refer to your purchase documentation or the Amazon Renewed product page for specific warranty terms and duration. Original manufacturer warranties may not apply to renewed products.

### 10.2 Technical Support

For technical assistance, troubleshooting, or further documentation, please visit the official Cisco support website or contact your reseller. Ensure you have your product model number (C9300-48UN-A) and any relevant purchase details available when seeking support.

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



