Cisco C9300-NM-4G

Cisco Catalyst 9300 4 x 1GE Network Module User Manual

Model: C9300-NM-4G

1. PRODUCT OVERVIEW

The Cisco Catalyst 9300 4 x 1GE Network Module (C9300-NM-4G) is a spare component designed to expand the network connectivity of compatible Cisco Catalyst 9300 Series switches. This module provides four 1 Gigabit Ethernet (1GE) ports, enabling high-speed data transfer and flexible network configurations.

This image displays the Cisco Catalyst 9300 4 x 1GE Network Module. It features four 1 Gigabit Ethernet (1GE) ports on the front panel, designed for network connectivity. A heatsink is visible on the circuit board, indicating thermal management for the module's components. The module is shown with its metal casing and an ejector handle for installation and removal.

Key Features:

- Provides 4 x 1 Gigabit Ethernet ports.
- Designed for Cisco Catalyst 9300 Series switches.
- Enhances network scalability and flexibility.

2. SETUP AND INSTALLATION

This section outlines the general procedure for installing the C9300-NM-4G network module into a compatible Cisco Catalyst 9300 Series switch. Always refer to the specific installation guide for your Cisco Catalyst 9300 Series switch model for detailed instructions and safety precautions.

Safety Precautions:

- Ensure the switch is powered off and disconnected from all power sources before installation.
- Wear an ESD-preventive wrist strap connected to a grounded surface to prevent electrostatic discharge.
- Handle the module by its edges to avoid touching components.

Installation Steps:

1. **Prepare the Switch:** Power off the Cisco Catalyst 9300 Series switch and disconnect all power cables.

2. **Locate the Module Slot:** Identify an available network module slot on the rear of your Catalyst 9300 switch. Remove any blank cover plates from the slot.

3. **Insert the Module:** Align the C9300-NM-4G module with the empty slot. Gently slide the module into the slot until it is fully seated. Ensure the ejector levers are properly engaged.

4. **Secure the Module:** Tighten any captive screws on the module's faceplate to secure it firmly in place.

5. **Reconnect and Power On:** Reconnect the power cables to the switch and power it on.

6. **Verify Installation:** Observe the module's status LEDs and check the switch's console or management interface to confirm the module is recognized and operational.

3. OPERATING THE NETWORK MODULE

Once installed and recognized by the Cisco Catalyst 9300 Series switch, the C9300-NM-4G module's ports become available for network connectivity. Operation primarily involves configuring the ports via the switch's Command Line Interface (CLI) or network management system.

Basic Operation:

- **LED Indicators:** Refer to your switch's documentation for the meaning of the module's LED indicators, which typically show link status and activity for each port.
- **Port Configuration:** Use the switch's CLI to configure port settings such as speed, duplex mode, VLAN assignments, and other network parameters.
- **Connectivity:** Connect standard Ethernet cables to the 1GE ports to establish network links.

For detailed configuration instructions, consult the official Cisco IOS XE Software Configuration Guides for the Catalyst 9300 Series switches, available on the Cisco Support Website.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your C9300-NM-4G network module.

General Maintenance Tips:

- **Environmental Control:** Ensure the switch and module operate within recommended temperature and humidity ranges.
- **Cleanliness:** Keep the module and switch free from dust and debris. Use compressed air for cleaning if necessary, ensuring the switch is powered off.
- **Firmware Updates:** Regularly check the Cisco Support Website for firmware updates for your Catalyst 9300 Series switch, which may include updates for network modules. Follow Cisco's recommended update procedures.
- **Cable Management:** Ensure network cables are properly routed and secured to prevent accidental disconnections or damage.

5. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues encountered with the C9300-NM-4G network module.

Common Issues and Solutions:

- **Module Not Recognized:**
  - Verify the module is fully seated in its slot. Power off the switch, re-seat the module, and power on

again.

- ○ Check the switch's system logs for any error messages related to module detection.
- ○ Ensure the switch's IOS XE software version supports the C9300-NM-4G module.

- **No Link Light/Connectivity:**

  - ○ Check the Ethernet cable connection at both ends. Try a different cable.
  - ○ Verify the connected device is powered on and properly configured.
  - ○ Check the port configuration on the switch via CLI (e.g., ensure the port is not shut down).
  - ○ Test with a known-good port or device.

- **Module Status LED Errors:**

  - ○ Consult the Cisco Catalyst 9300 Series switch hardware installation guide for the meaning of specific LED patterns.
  - ○ If persistent errors occur, contact Cisco Technical Support.

For advanced troubleshooting or issues not resolved by these steps, refer to the comprehensive documentation on the Cisco Support Website or contact Cisco Technical Assistance Center (TAC).

6. SPECIFICATIONS
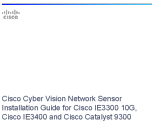
Attribute	Value
Brand	Cisco
Series	C9300-NM-4G=
Model Number	C9300-NM-4G=
Item Weight	1.23 pounds (0.56 kg)
Product Dimensions (LxWxH)	7.09 x 11.81 x 5.12 inches (18 x 30 x 13 cm)
Package Weight	1.2 pounds (0.54 kg)
Package Dimensions (LxHxW)	13 x 6 x 11 inches (33 x 15.2 x 27.9 cm)
Country of Origin	China
ASIN	B074YGL4X8
Date First Available	August 10, 2017

7. WARRANTY AND SUPPORT

For information regarding the warranty of your Cisco Catalyst 9300 4 x 1GE Network Module, please refer to the official Cisco warranty policy documentation available on the Cisco website. Warranty terms and conditions may vary based on region and purchase agreement.

For technical support, additional documentation, software downloads, and service requests, please visit the official Cisco Support Website.

Related Documents - C9300-NM-4G

[Cisco IOS XE Cupertino 17.7.x Stacking and High Availability Configuration Guide for Catalyst 9300 Switches](#)
Detailed configuration guide for Cisco IOS XE Cupertino 17.7.x on Catalyst 9300 Series Switches, covering stacking, high availability, NSF/SSO, GIR, 1:1 redundancy, and high-speed stacking for enhanced network resilience.

[Cisco Catalyst 9300 Series Switches Hardware Installation Guide](#)
A comprehensive guide for installing Cisco Catalyst 9300 Series Switches, covering hardware components, installation procedures, and configuration.

[Cisco FlexConnect Bonjour Deployment Guide for Cisco DNA Service](#)
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.

[Cisco Catalyst 9300 Series Switches FIPS 140-2 Security Policy](#)
This document outlines the FIPS 140-2 Level 1 Non-Proprietary Security Policy for Cisco Catalyst 9300 Series Switches, detailing their cryptographic module security, roles, services, algorithms, and secure operation procedures.

[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.

[Cisco Cyber Vision Network Sensor Installation Guide for IE3300, IE3400, and Catalyst 9300](#)
This guide provides detailed instructions for installing the Cisco Cyber Vision Network Sensor on Cisco IE3300 10G, Cisco IE3400, and Cisco Catalyst 9300 series switches. It covers initial configuration, procedures using the management extension and local manager, and CLI-based installation.