

CISCO CATALYST 9300X SERIES

Cisco C9300X-NM-2C

40G/100G Network Module

The Cisco C9300X-NM-2C is a high-speed network module designed for compatible Cisco Catalyst 9300X switches. It provides two dual-rate QSFP ports supporting 40 Gigabit Ethernet and 100 Gigabit Ethernet connectivity, helping enterprise networks expand uplink capacity and connect high-performance network infrastructure.

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2

QSFP Network Ports

100G

Maximum Ethernet Speed per Port

40G

Supported Ethernet Speed

9300X

Compatible Switch Family

PRODUCT OVERVIEW

High-Speed Uplink Expansion for Enterprise Networks

The Cisco C9300X-NM-2C provides two high-speed QSFP interfaces for supported Catalyst 9300X platforms. It is intended for network designs that require high-bandwidth switch uplinks, aggregation connectivity or links to other compatible network infrastructure. Exact functionality depends on the host switch, port configuration, optics or cables, and Cisco software support.

2P**Two QSFP Ports**

Provides two QSFP interfaces for supported high-speed network connections.

100G**100 Gigabit Ethernet**

Supports 100G connectivity where the host switch, port configuration and connected equipment are compatible.

40G**40 Gigabit Ethernet**

Also supports 40G operation for supported QSFP connections.

9300X**Catalyst 9300X Platform**

Designed for supported Cisco Catalyst 9300X switch models, not as a universal module for every Catalyst series.

UP

Uplink Connectivity

Helps provide high-bandwidth links between compatible switches and network infrastructure.

MOD

Modular Expansion

Installs into a supported network-module bay on a compatible Catalyst 9300X switch.

01 / TECHNICAL SPECIFICATIONS

Cisco C9300X-NM-2C Detailed Specifications

Review the key product specifications before selecting this module for your network deployment.

Specification	Details
Manufacturer	Cisco Systems, Inc.
Product Series	Cisco Catalyst 9300X
Model	C9300X-NM-2C
Spare Part Number	C9300X-NM-2C=
Product Type	Switch Network Module
Number of Ports	2
Port Interface	QSFP
Supported Port Speeds	40 Gigabit Ethernet / 100 Gigabit Ethernet

Specification	Details
Maximum Port Speed	100 Gbps per port, subject to supported configuration
Primary Function	High-speed switch uplink connectivity
Supported Switch Family	Cisco Catalyst 9300X
Module Compatibility	Supported Catalyst 9300X switch SKUs only
Optics and Cabling	Compatible QSFP transceivers or cables, as supported by the host switch and Cisco compatibility documentation
Breakout Cable Support	Depends on the host switch model, specific port and Cisco IOS XE release
Installation	Supported network-module slot on the host switch
Power over Ethernet	Not applicable to this network module
Standalone Operation	Requires a compatible host switch
Dimensions	Not specified here; confirm with Cisco documentation
Weight	Not specified here; confirm with Cisco documentation

Specification	Details
Package Contents	Confirm with the seller and the supplied SKU
Product Condition	Confirm current stock condition with NexoGet

Specification note: Actual port availability and supported configurations depend on the specific Catalyst 9300X host switch, Cisco IOS XE version, connected optics or cables, and applicable hardware restrictions. Verify these details before ordering.

02 / COMPATIBILITY

Check Switch Compatibility Before Purchase

The C9300X-NM-2C belongs to the Catalyst 9300X network-module family. Cisco documentation specifies that Catalyst 9300X network modules are supported on Catalyst 9300X switches. Do not assume that this module is compatible with standard Catalyst 9300, Catalyst 9300L or Catalyst 9200 switches.

01

Confirm the Switch SKU

Check the complete host-switch model number and confirm that the C9300X-NM-2C is supported for that exact SKU.

02

Verify the Port Configuration

Confirm the intended 40G or 100G operating speed, transceiver or cable type, and remote interface.

03

Check Cisco Software Guidance

Review the applicable Cisco IOS XE release documentation for supported features, limitations and breakout options.

Important for C9300X-48HXN: Cisco release documentation describes specific restrictions for the C9300X-NM-2C on this switch model. In documented IOS XE releases 17.8.1 and later, breakout cable support is limited to port 1; port 2 does not support breakout in that configuration. Check the release notes for the exact software version before designing a breakout connection.

03 / NETWORK APPLICATIONS

Where the C9300X-NM-2C Can Be Used

With a compatible switch and supported QSFP connection, the module can support high-bandwidth connectivity in enterprise campus and aggregation network designs.

AGG

Network Aggregation

Connect compatible switching infrastructure through high-speed uplinks.

CORE

Campus Network Uplinks

Support high-bandwidth connections in enterprise campus architectures where the host configuration allows.

DC

Data Center Connectivity

Use supported 40G or 100G links to connect compatible network infrastructure.

ENT

Enterprise Infrastructure

Expand connectivity options for suitable enterprise switching deployments.

40G

100G

40G Network Links

Deploy compatible 40 Gigabit Ethernet links when supported by the module, host switch and connected equipment.

100G Network Links

Build supported 100 Gigabit Ethernet uplinks for high-bandwidth network paths.

04 / MODULE COMPARISON

C9300X-NM-2C vs Other Cisco Network Modules

Different Catalyst network modules serve different interface and bandwidth requirements. Choose according to the host switch compatibility list and the ports needed for your deployment.

Network Module	Port Configuration	Typical Purpose
C9300X-NM-2C	2 x 40G/100G QSFP	High-speed 40G/100G uplinks
C9300X-NM-4C	4 x 40G/100G QSFP	Higher port density for supported Catalyst 9300X models
C9300X-NM-8Y	8 x 1G/10G/25G SFP	Fiber uplinks at supported SFP-family speeds
C9300X-NM-8M	8 x 1G/10G Multigigabit copper	Multigigabit copper connectivity

Compatibility reminder: The modules listed above are not interchangeable in every switch. Check Cisco's module compatibility documentation for the exact host model before choosing a replacement or upgrade.

05 / INSTALLATION AND ORDERING

Before Installing or Ordering the Module

Check	What to Verify
Host Switch	Confirm the exact Catalyst 9300X SKU supports this module.
Network Module Slot	Ensure the switch has the appropriate supported module bay.
Optics or Cable	Confirm the QSFP optic or cable is supported at the required speed and distance.
Software Release	Review the applicable Cisco IOS XE release notes and feature limitations.
Port Configuration	Check the required speed, interface configuration and any breakout restrictions.
Part Number	Verify C9300X-NM-2C and the relevant spare SKU C9300X-NM-2C=.
Included Accessories	Confirm exactly what is included in the offered package.
Stock Condition	Confirm whether the item is new, refurbished or used before purchase.

What is the Cisco C9300X-NM-2C?

It is a Cisco Catalyst 9300X network module with two dual-rate QSFP ports supporting 40G and 100G Ethernet connections in supported configurations.

How many ports does this module provide?

The module provides two QSFP ports. Supported speeds and features depend on the host switch, optics or cable, and software configuration.

Can it be installed in any Cisco Catalyst 9300 switch?

No. Catalyst 9300X network modules are intended for supported Catalyst 9300X switch models. Verify the complete switch SKU before purchasing.

Does the module include QSFP transceivers?

The module model alone does not confirm that transceivers or cables are included. Check the seller's package contents and quote details.

Does it support breakout cables?

Breakout support depends on the host switch model, specific port and Cisco IOS XE release. Verify the relevant Cisco release notes before deployment.

Where can I check official specifications?

Review Cisco's official Catalyst 9300 Series data sheet and network-module installation documentation before finalizing a hardware design.

Cisco Product Resources

Use the manufacturer's documentation to confirm compatibility, installation requirements and software-specific limitations.

Cisco Catalyst 9300 Series Data Sheet

Consult the official data sheet for Catalyst 9300X network module options and product specifications.

Cisco Network Module Installation Guide

Review Cisco's hardware installation instructions and module-specific considerations.

Cisco Catalyst 9300 Release Notes

Check software-specific restrictions and supported features for the host switch and network module.

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Need Pricing or Availability for C9300X-NM-2C?

Contact NexoGet for product pricing, current stock availability, item condition, shipping options and enterprise networking hardware quotations.

Phone: +971 50 516 6272

Email: info@nexoget.com

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