Layer23 switch.com
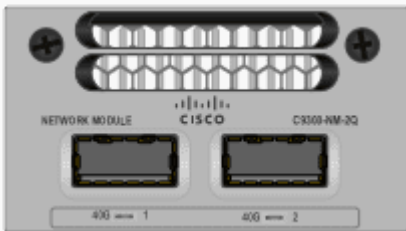
C9300-NM-2Q DataSheet

Cisco C9300-NM-2Q network module offers dual 40G QSFP+ uplinks for Catalyst 9300 Series, delivering high-speed backbone connectivity for scalable enterprise networks.

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C9300-NM-2Q Description

The Cisco C9300-NM-2Q is a high-speed network module for Catalyst 9300 Series switches, offering two 40G QSFP+ uplink ports. It enables powerful, high-bandwidth connectivity from the access layer to core or aggregation switches, ideal for organizations upgrading their network backbone or requiring fast east-west data transfer. This hot-swappable, field-replaceable module supports both 40G QSFP+ and 4x10G breakout modes with supported optics, giving businesses flexibility for current and future network expansion. The C9300-NM-2Q integrates seamlessly with Catalyst 9300 switches (excluding 9300X) and is built for demanding enterprise environments that require scalable, future-proof uplink capacity.

Quick Specs

Parameter	Details
Product Model	C9300-NM-2Q
Supported Devices	Catalyst 9300 Series (non-9300X)

Uplink Ports	2 × 40G QSFP+
Module Type	Field-replaceable, Hot-swappable
Max Data Rate	40 Gbps per port
SFP+ Compatibility	Supports Cisco QSFP+ modules (40G/10G breakout)
Dimensions	Standard 9300 module size
MTBF	4,292,308 hours
Typical Use	High-bandwidth uplink to core/aggregation

Product Comparison

Model	Uplink Ports	Max Speed	Compatibility	Use Case
C9300-NM-2Q	2 × 40G QSFP+	40 Gbps	Catalyst 9300 (not X)	High-speed core/aggregation
C9300-NM-8X	8 × 10G SFP+	10 Gbps	Catalyst 9300 (not X)	High-density 10G uplink
C9300-NM-4G	4 × 1G SFP	1 Gbps	Catalyst 9300, 3850	Standard fiber/copper uplink

Product Key Features

- **Dual 40G QSFP+ Ports**: Supports up to two 40Gbps uplinks, ideal for direct connections to core switches, high-speed servers, or data center aggregation.
- **10G Breakout Capability**: Each QSFP+ port supports 4x10G SFP+ breakout, allowing up to eight 10G uplinks with the right optics and cables.
- **Future-Proof Scalability**: High bandwidth uplinks ensure your network is ready for increasing traffic and advanced applications, protecting your investment.
- **Plug-and-Play Hot Swap**: Install or replace modules without interrupting network operations, supporting seamless expansion and maintenance.

- **Full Compatibility**: Designed for Catalyst 9300 Series modular switches (except 9300X), integrates with Cisco's ecosystem of QSFP+ and SFP+ transceivers.
- **High Reliability**: MTBF over 4.2 million hours for stable, long-term deployment in enterprise and campus environments.
- **Standards-Based Design**: Adheres to IEEE 802.3ba (40G) and QSFP+ MSA, ensuring broad compatibility and interoperability.
- **Optimized for Data-Intensive Environments**: Perfect for organizations deploying cloud services, virtualization, or high-throughput access layers.

Installing C9300 Network Module Guide

- Attach an ESD-preventive wrist strap to your wrist and to an earth ground surface.

- Remove the module from the protective packaging.

- Remove the blank module from the switch and save it.

- Position the module face up to install it in the module slot. Slide the module into the slot until the screw makes contact with the chassis. Fasten the captive screws to secure the network module in place.

- While installing C9300 network modules, position the module face up to install it in the module slot. Slide the module into the slot until the screw makes contact with the chassis. Fasten the captive screws to secure the network module in place.

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Specification

Cisco C9300-NM-2Q Detailed Specifications	
Product Number	C9300-NM-2Q
Module Type	Catalyst Type-1 Network Module

Cisco C9300-NM-2Q Detailed Specifications	
Port Count	2
Port Speed	40 Gbps each
Port Form Factor	QSFP+
Total Uplink Bandwidth	80 Gbps (full-duplex)
Hot-Swap Support	Yes – field-replaceable
Supported Optics	40G-SR4, 40G-LR4, 40G-BiDi
Host Slot	Front-bay Type-1 on Catalyst 9300
Compatibility	All Catalyst 9300 modular-uplink models, legacy 3850
Nondisruptive Install	Yes
Regulatory Compliance	RoHS 5
Safety Certs	UL 60950-1, EN 60950-1, IEC 60950-1
EMC Certs	FCC Part 15 Class A, EN 55032 Class A
Operating Temp.	-5 °C – 45 °C (inherits chassis spec)
Relative Humidity	5 % – 90 % non-condensing
Investment Protection	Upgrades 10 G to 40 G without chassis swap
Use Case	Campus core collapse, high-density WLAN, video back-haul
Module Power Draw*	Approx. 84 W idle (within host)
RoHS Version	Directive 2011/65/EU (RoHS 5)
Warranty	Limited Lifetime

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