

N9K-C9272Q Datasheet



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Overview

N9K-C9272Q is the Nexus 9200 with 72p 40G QSFP+. Built on the latest Cisco Cloud Scale technology, the Cisco Nexus@9200 platform consists of industry-leading ultra-high-density fixed-configuration data center switches with line-rate Layer 2 and 3 features that support enterprise and commercial applications, service provider hosting, and cloud computing environments. These switches support a wide range of port speeds with flexible combinations of 1/10/25/40/50/100-Gbps connectivity in compact form factors. Using the widely deployed industry-leading Cisco NX-OS Software operating system, the Cisco Nexus 9200 platform is designed for programmable fabric, which offers flexibility, mobility, and scale for service providers and Infrastructure-as-a-Service (IaaS) and cloud providers. It is also designed for the programmable network, which automates configuration and management for customers who want to take advantage of the DevOps operation model and tool sets.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	N9K-C9272Q
Ports	72 x 40-Gbps QSFP+ ports
Supported speeds	10, and 40 Gbps
Port configuration	72 fixed QSFP+ ports, with breakout of up to 140 x 10-Gbps ports
Physical dimensions (H x W x D)	3.5 x 17.4x 24.5 in. (8.9 x 44.2 x 62.3 cm)
Weight	24.6 lb (11.2 kg) (without power supplies or fans)

Product Details

The Cisco Nexus 9200 platform provides the following features and benefits:

- **High performance and scalability**

- The platform provides wire-rate Layer 2 and 3 switching on all ports with up to 7.2 Tbps and over 5.35 bpps of bandwidth.
- With up to 30 MB of shared buffer, the platform is an excellent choice for scalable data centers and big data applications. The ability to fine tune buffer allocation for non-drop queues makes the Nexus 9200 an ideal platform for IP storage designs.

- **Virtual Extensible LAN (VXLAN)**

- The platform offers native line-rate VXLAN routing.
- The Border Gateway Protocol (BGP) Ethernet Virtual Private Network (EVPN) control plane provides scalable multitenancy and host mobility (refer to VXLAN Network with MP-BGP EVPN Control Plane for more information).

- **Hardware and software high availability**

- The 64-way Equal-Cost Multipath (ECMP) routing enables the use of Layer 3 fat-tree designs. This feature helps organizations prevent network bottlenecks, increase resiliency, and add capacity with little network disruption.
- Patching ensures undistruptive upgrade in most cases.
- The switches use hot-swappable Power-Supply Units (PSUs) and fans with N+1 redundancy.

- **Purpose-built NX-OS operating system with comprehensive, proven innovations**

- Open programmability supports built-in DevOps automation tools such as Puppet, Chef, and Ansible.
- Cisco NX-API supports a common programmatic approach across Cisco Nexus switches.
- Power-on autoprovisioning (POAP) enables touchless bootup and configuration of the switch, drastically reducing provisioning time.
- The onboard Python scripting engine enables automation and remote operations in the data center.

◦ Advanced buffer monitoring reports real-time buffer utilization per port and per queue, which allows organizations to monitor traffic bursts and application traffic patterns.

◦ Complete Layer 3 unicast and multicast routing protocol suites are supported, including BGP, Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Routing Information Protocol Version 2 (RIPv2), Protocol Independent Multicast Sparse Mode (PIM-SM), Source-Specific Multicast (SSM), and Multicast Source Discovery Protocol (MSDP).

Segment routing allows the network to forward Multiprotocol Label Switching (MPLS) packets and perform traffic engineering without Resource Reservation Protocol (RSVP) Traffic Engineering (TE). It provides a control-plane alternative for increased network scalability and virtualization.

The Accessories

Table 2 shows the supported accessories.

Model	Description
NXA-PAC-650W-PI	Nexus 9000 650W AC PS, Port-side Intake
NXA-PAC-650W-PE	Nexus 9000 650W AC PS, Port-side Exhaust
NXA-PAC-1200W-PI	Nexus 9000 1200W AC PS, Port-side Intake
NXA-PAC-1200W-PE	Nexus 9000 1200W AC PS, Port-side Exhaust
UCSC-PSU-930WDC	Nexus 9000 930W DC PS, Port-side Intake
UCS-PSU-6332-DC	Nexus 9000 930W DC PS, Port-side Exhaust
N9K-PUV-1200W	Nexus 9300 1200W Universal Power Supply, Bi-directional air flow and Supports AC/HVDC
N9K-C9300-FAN3	Nexus 9K Fixed Fan for 2RU switch, Port-side Intake
N9K-C9300-FAN3-B	Nexus 9K Fixed Fan for 2RU switch, Port-side Exhaust
NXA-FAN-30CFM-F	Nexus 2K/3K/9K Single Fan for 1RU switch, port side exhaust airflow
NXA-FAN-30CFM-B	Nexus 2K/3K/9K Single Fan for 1RU switch, port side intake airflow
NXA-FAN-35CFM-PE	Nexus 92300 Single Fan, port side exhaust airflow
NXA-FAN-35CFM-PI	Nexus 92300 Single Fan, port side exhaust airflow
N93-LAN1K9=	Enhanced L3 including full OSPF, EIGRP, BGP for Nexus 9200/9300 Platform

Compare to Similar Items

Table 3 shows the comparison.

Product Code	N9K-C9272Q	N9K-C92160YC-X
Ports	72 x 40-Gbps QSFP+ ports	48 x 10- and 25-Gbps SFP+ and 6 QSFP+ ports (4 are 100-Gbps capable)
Supported speeds	10, and 40 Gbps	· 1, 10, and 25 Gbps on SFP+ ports · 10, 25, 40, and 100 Gbps on QSFP ports
Port configuration	72 fixed QSFP+ ports, with breakout of up to 140 x 10- Gbps ports	48 x 10/25-Gbps ports for downlinks; 4 of the 6 uplink ports are 100-Gbps capable. Ports 50 and 52 can be individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps

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Specification

N9K-C9272Q Specification	
Ports	72 x 40-Gbps QSFP+ ports
Supported speeds	10, and 40 Gbps

Port configuration	72 fixed QSFP+ ports, with breakout of up to 140 x 10-Gbps ports
Telemetry support	–
CPU	4 cores
System memory	16 GB
Solid-State Disk (SSD) drive	64 GB
Shared system buffer	30 MB
Management ports	2 ports: 1 RJ-45 and 1SFP
USB ports	1
RS-232 serial ports	1
Power supplies (PSU - up to 2)	930W DC, 1200W AC, or 1200W HVAC/DC
Typical power (AC)	310W
Maximum power (AC)	975W
Input voltage (AC)	100 to 240V PSU redundancy is not supported when used in 110V
Input voltage (HVAC)	200 to 277V
Input voltage (DC)	–40 to –72V DC (minimum and maximum) –48 to –60V DC (nominal)
Input voltage (HVDC)	240 to 380V
Frequency (AC)	50 to 60 Hz
Fans	2
Airflow	Port-side intake and exhaust
MTBF (hours)	397,090
Physical (H x W x D)	3.5 x 17.4x 24.5 in. (8.9 x 44.2 x 62.3 cm)
Acoustics	61.2 dBA at 50% fan speed, 69.6 dBA at 70% fan speed, and 78.2 dB at 100% fan speed
RoHS compliance	Yes

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Support and Resources

 [Cisco Nexus 9200 Platform Switches Datasheet](#)

Transition Guide

 [Select and Upgrade Cisco Data Center Switch](#)

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