

N9K-C9236C Datasheet



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Overview

N9K-C9236C is the Nexus 9200 with 36p 40G 100G QSFP28. 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-C9236C |
| Ports | 36 x 100-Gbps QSFP28 ports |
| Supported speeds | 1, 10, 25, 40, 50, and 100 Gbps |
| Port configuration | 36 fixed QSFP28 ports, with each being individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps ports |
| Physical dimensions (H x W x D) | 1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm) |
| Weight | 18.2 lb (8.3 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-C92304QC | N9K-C9236C |
|--------------------|--|---|
| Ports | 56 x 40-Gbps QSFP+ and 8 100-Gbps ports | 36 x 100-Gbps QSFP28 ports |
| Supported speeds | 10, 40, and 100 Gbps | 1, 10, 25, 40, 50, and 100 Gbps |
| Port configuration | 56 fixed QSFP+ ports, with breakout of up to 64 x 10-Gbps ports, plus 8 x 100-Gbps ports | 36 fixed QSFP28 ports, with each being individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps ports |

Get More Information

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Specification

| N9K-C9236C Specification | |
|--------------------------|----------------------------|
| Ports | 36 x 100-Gbps QSFP28 ports |

| | |
|---------------------------------------|---|
| Supported speeds | 1, 10, 25, 40, 50, and 100 Gbps |
| Port configuration | 36 fixed QSFP28 ports, with each being individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 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 | 3 RJ-45 ports |
| USB ports | 1 |
| RS-232 serial ports | 1 |
| Power supplies (PSU - up to 2) | 930W DC, 650W AC, or 1200W HVAC/DC |
| Typical power (AC) | 275W |
| Maximum power (AC) | 640W |
| Input voltage (AC) | 100 to 240V |
| 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 | 4 |
| Airflow | Port-side intake and exhaust |
| MTBF (hours) | 399,300 |
| Physical (H x W x D) | 1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm) |
| Acoustics | 58.8 dBA 40% fan speed, 65.3 dBA at 70% fan speed, and 69.6 dB at 100% fan speed |
| RoHS compliance | Yes |
| Weight | 18.2 lb (8.3 kg) (without power supplies or fans) |

Download Resource

Support and Resources

 [Cisco Nexus 9200 Platform Switches Datasheet](#)

Transition Guide

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

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