# Cisco Nexus 9200 Platform Switches

## Product Overview

The Cisco Nexus® 9200 platform is the latest addition to the Cisco Nexus 9000 Series Switches. The Cisco Nexus 9200 platform consists of industry leading ultra-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 Nexus 9200 switch is designed for the programmable fabric, which offers flexibility, mobility and scale for service providers and IaaS/cloud providers; and for the programmable network which automates configuration and management for customers who want to take advantage of the DevOps type of operation model and toolsets.

## Models

Table 1 summarizes the Cisco Nexus 9200 platform switch models.

**Table 1.** Cisco Nexus 9200 Platform Switches

| Model | Description |
|---|---|
| **Cisco Nexus 92160YC-X Switch** | 48 x 10/25-Gbps SFP+ ports and 6 x QSFP28 ports (4 of the 6 QSFP+ ports are 100Gbps capable ports)* |
| **Cisco Nexus 9272Q Switch** | 72 x 40-Gbps QSFP+ ports |
| **Cisco Nexus 92304QC Switch** | 56 x 40-Gbps QSFP+ ports and 8 x 100- Gbps QSFP28 ports |
| **Cisco Nexus 9236C Switch** | 36 x 100-Gbps QSFP28 ports |

* Check support and port configuration details in Table 2.

The Cisco Nexus 92160YC-X Switch (Figure 1) is a 1-rack-unit (1RU) switch that supports 3.2 terabits per second (Tbps) of bandwidth and over 2.5 billion packets per second (bpps). The 48-port downlink ports on the 92160YC-X can be configured to work as either 1/10/25- Gbps ports, offering deployment flexibility and investment protection. The uplink can support up to four 100-Gbps OR up to six 40-Gbps ports, or a combination of 10-, 25-, 40- and 100-Gbps connectivity, offering flexible migration options.

The Cisco Nexus 92160YC-X Switch empowers customers by giving them a better understanding of their network flow and telemetry. Check the latest software release notes here for supported features. This new capability allows administrators to improve network operations, and provides a rich source of data to improve utilization of the network infrastructure, helping increase return on investment (ROI).

**Figure 1.** Cisco Nexus 92160YC-X Switch



The Cisco Nexus 9272Q Switch (Figure 2) is an ultra-high-density 2RU switch that supports 5.76 Tbps of bandwidth and over 4.5 bpps across 72 fixed 40-Gbps QSFP+ ports. Up to 35 ports on the 9272Q can be converted into a total of 140 x 10-Gbps ports.

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**Figure 2.** Cisco Nexus 9272Q Switch



The Cisco Nexus 92304QC Switch (Figure 3) is an ultra-high-density 2RU switch that supports 6.1 Tbps of bandwidth and over 4.8 bpps across 56 40-Gbps QSFP+ ports and 8 100-Gbps QSFP28 ports. Up to 16 ports on the 92304QC can be converted into a total of 64 x 10-Gbps ports.

**Figure 3.** Cisco Nexus 92304QC Switch



The Cisco Nexus 9236C Switch (Figure 4) is a 1RU switch that supports 7.2 Tbps of bandwidth and over 5.7 bpps across 36 100-Gbps QSFP28 ports. Each of the ports on the 9236C can be individually configured into 1x100Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps. It provides industry's best density and flexibility needed for data center spine or aggregation connectivity, in a compact form factor.

**Figure 4.** Cisco Nexus 9236C Switch



## Features and Benefits

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).

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- 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 undisruptive 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 like Puppet, Chef, and Ansible.
  - NX-API supports for a common programmatic approach across Cisco Nexus switches.
  - Power On Auto Provisioning (POAP) enables touchless bootup and configuration of the switch, drastically reducing provisioning time.
  - 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 Cisco Nexus 9200 platform offers industry-leading density and performance with flexible port configurations that can support existing fiber cabling (Table 2).

**Table 2.** Cisco Nexus 9200 Platform Switches Characteristics

| Model | Cisco Nexus 92160YC-X | Cisco Nexus 9272Q | Cisco Nexus 92304QC | Cisco Nexus 9236C |
|---|---|---|---|---|
| **Ports** | 48 10/25-Gbps SFP+ and 6 QSFP+ ports (4 are 100-Gbps capable) | 72 40-Gbps QSFP+ ports | 56 40-Gbps QSFP+ and 8 100-Gbps ports | 36 100-Gbps QSFP28 ports |
| **Supported speeds** | 1, 10 and 25 Gbps on SFP+ ports<br>10, 25, 40, and 100 Gbps on QSFP+ ports | 1*, 10, and 40 Gbps | 1*, 10, 40 and 100 Gbps | 1*, 10, 25, 40, 50 and 100 Gbps |
| **Port configuration** | 48 x 10/25-Gbps ports for downlinks; 4 of the 6 uplink ports are 100-Gbps capable. Port 50 and 52 can be individually configured into 1x100Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps* | 72 fixed QSFP+ ports, with break out of up to 140 x 10-Gbps ports | 56 fixed QSFP+ ports, with break out of up to 64 x 10-Gbps ports.<br>8 100-Gbps ports. | 36 fixed QSFP28 ports, with each being individually configured into 1x100Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps |
| **Rich telemetry support** | Yes | – | – | – |
| **CPU** | 2 core | 4 core | 4 core | 4 core |
| **System memory** | 16 GB | 16 GB | 16 GB | 16 GB |
| **Solid-state disk (SSD) drive** | 64 GB | 64 GB | 64 GB | 64 GB |

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| Model | Cisco Nexus 92160YC-X | Cisco Nexus 9272Q | Cisco Nexus 92304QC | Cisco Nexus 9236C |
|---|---|---|---|---|
| **Shared System buffer** | 20 MB | 30 MB | 30 MB | 30 MB |
| **Management ports** | 2 ports: 1 RJ-45 and 1 SFP+ | 2 ports: 1 RJ-45 and 1 SFP+ | 3 RJ-45 ports | 3 RJ-45 ports |
| **USB ports** | 1 | 1 | 1 | 1 |
| **RS-232 serial ports** | 1 | 1 | 1 | 1 |
| **Power supplies (up to 2)** | 650W AC, 930W DC, or 1200W AC/HVDC | 930W DC, 1200W AC, or 1200W HVAC/DC | 650W AC, 930W DC, or 1200W HVAC/HVDC | 930W DC, 650W AC, or 1200W HVAC/DC |
| **Typical power** ** **(AC)** | 10G Mode: 150W<br>25G Mode: 170W | 310W | 305W | 275W |
| **Maximum power** ** **(AC)** | 475W | 975W | 720W | 640W |
| **Input voltage (AC)** | 100 to 240V | 100 to 240V | 100 to 240V | 100 to 240V |
| **Input voltage (HVAC)** | 200 to 277V | 200 to 277V | 200 to 277V | 200 to 277V |
| **Input voltage (DC)** | -40V – -72V DC (min-max)<br>-48V – -60V DC (nominal) | -40V – -72V DC (min-max)<br>-48V – -60V DC (nominal) | -40V – -72V DC (min-max)<br>-48V – -60V DC (nominal) | -40V – -72V DC (min-max)<br>-48V – -60V DC (nominal) |
| **Input voltage (HVDC)** | 240 to 380V | 240 to 380V | 240 to 380V | 240 to 380V |
| **Frequency (AC)** | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz |
| **Fans** | 4 | 2 | 2 | 4 |
| **Airflow** | Port-side intake and exhaust | Port-side intake and exhaust | Port-side intake and exhaust | Port-side intake and exhaust |
| **Physical (H x W x D)** | 1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm) | 3.5 x 17.4x 24.5 in. (8.9 x 44.2 x 62.3 cm) | 3.5 x 17.5 x 22.5 in. (8.9 x 44.5 x 57.1 cm | 1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm) |
| **RoHS compliance** | Yes | Yes | Yes | Yes |

* Please check the latest software release note for break out and port speed support.

** Typical and maximum power values are based on input drawn from the power circuit. The power supply value (for example, 650W AC power supply: NXA-PAC-650W-PI) is based on the output rating to the inside of the switch.

## Cisco NX-OS Software Overview

NX-OS is a purpose-built data center operating system designed for performance, resiliency, scalability, manageability, and programmability at its foundation. It provides a robust and comprehensive feature set that meets the demanding requirements of virtualization and automation in present and future data centers.

The Cisco Nexus 9000 Series uses an enhanced version of NX-OS with a single binary image that supports every switch in the series, simplifying image management. The operating system is modular, with a dedicated process for each routing protocol, a design that isolates faults while increasing availability. In the event of a process failure, the process can be restarted without loss of state. The operating system supports hot and cold patching and online diagnostics.

Main features include the following:

- POAP automates the process of upgrading software images and installing configuration files on Cisco Nexus switches that are being deployed in the network for the first time.
- NX-API provides operators with a way to manage the switch through remote procedure calls (RPCs; JavaScript Object Notation [JSON] or XML) over HTTP/HTTPS infrastructure.
- Support for customer applications through Python scripting, Bash shell, and Linux containers.
- Patching allows NX-OS to be upgraded and patched without any interruption in switch operations.

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- Line-rate overlay support provides VXLAN bridging and routing at full line rate, facilitating and accelerating communication between virtual and physical servers as well as between multiple data centers in a campus environment.
- Network traffic monitoring with Cisco Nexus Data Broker builds simple, scalable, and cost-effective network test access points (TAPs) or Cisco Switched Port Analyzer (SPAN) aggregation for network traffic monitoring and analysis.

## Cisco NX-OS Features and Benefits

The software packaging for the Cisco Nexus 9000 Series offers flexibility and a comprehensive feature set while being consistent with Cisco Nexus access switches. The default system software has a comprehensive Layer 2 security and management feature set. To enable additional functions including Layer 3 IP unicast and IP multicast routing and Cisco Nexus Data Broker, you must install additional licenses. Table 3 lists the software packaging and licensing available to enable advanced features.

**Table 3.** Software Packaging and Licensing

| Packaging | Chassis Based | Part Number | Supported Features |
|---|---|---|---|
| **Cisco Nexus 9200/Nexus9300 Layer 3 license** | Chassis | N93-LAN1K9 | Layer 3 including full OSPF, EIGRP, BGP, and VXLAN |
| **Cisco Data Center Network Manager (DCNM) license** | Chassis | DCNM-LAN-N93-K9 | DCNM license for Cisco Nexus 9000 platform |
| **Cisco Nexus Data Broker license** | Chassis | L-NDB-FX-SWT-K9 | Data Broker license for Cisco Nexus 9000 platform |

For a complete list of supported features, refer to Cisco Feature Navigator.

## Software Requirements

The Cisco Nexus 9200 platform supports the NX-OS operating system.

For the latest software release information and recommendations, please refer to the product bulletin at http://www.cisco.com/go/nexus9000.

## Specifications

Table 4 lists the performance and scalability specifications for the Cisco Nexus 9200 platform switches. (Please check the software release notes for feature support information.)

**Table 4.** Performance and Scalability Specifications*

| Item | Cisco Nexus 92160YC-X Switch Switch | Cisco Nexus 9272Q Switch<br>Cisco Nexus 92304QC Switch<br>Cisco Nexus 9236C Switch |
|---|---|---|
| **Maximum number of longest prefix match (LPM) routes*** <br>(Shipping: Support in initial software release) | Shipping: 16,000<br>Maximum: 256,000 | Shipping: 16,000<br>Maximum: 256,000 |
| **Maximum number of IP host entries*** <br>(Shipping: Support in initial software release) | Shipping: 96,000 (ECMP)<br>Maximum: 256,000 | Shipping: 96,000 (ECMP)<br>Maximum: 256,000 |
| **Maximum number of MAC address entries*** <br>(Shipping: Support in initial software release) | Shipping: 96,000<br>Maximum: 256,000 | Shipping: 96,000<br>Maximum: 256,000 |
| **Number of multicast routes*** <br>(Shipping: Support in initial software release) | Shipping: 10,000<br>Maximum: 32,000 | Shipping: 10,000<br>Maximum: 32,000 |
| **Number of Interior Gateway Management Protocol (IGMP) snooping groups** | 32,000 | 32,000 |

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| Item | Cisco Nexus 92160YC-X Switch Switch | Cisco Nexus 9272Q Switch<br>Cisco Nexus 92304QC Switch<br>Cisco Nexus 9236C Switch |
|---|---|---|
| **Number of access control list (ACL) entries*** | Per slice of the forwarding engine:<br>4,000 ingress<br>2,000 egress<br>Maximum:<br>8,000 ingress<br>4,000 egress<br>Shipping:<br>7,164 ingress<br>3,580 egress | Per slice of the forwarding engine:<br>4,000 ingress<br>2,000 egress<br>Maximum:<br>24,000 ingress<br>12,000 egress<br>Shipping:<br>21,492 ingress<br>10,740 egress |
| **Maximum number of VLANs** | 4096 | 4096 |
| **Maximum number of Virtual Routing and Forwarding (VRF) instances** | 16,000 | 16,000 |
| **Maximum number of links in a PortChannel** | 32 | 32 |
| **Maximum number of ECMP paths** | 64 | 64 |
| **Maximum number of ECMP groups** | 256 | 256 |
| **Maximum number of ECMP members** | 64,000 | 64,000 |
| **Maximum number of PortChannels** | 512 | 512 |
| **Number of active SPAN sessions** | 4 | 4 |
| **Maximum number of Rapid per-VLAN Spanning Tree (RPVST) instances**<br>(Shipping: Support in initial software release) | Shipping: 507<br>Maximum: 4000 | Shipping: 507<br>Maximum: 4000 |
| **Maximum number of Hot-Standby Router Protocol (HSRP) groups** | 490 | 490 |
| **Maximum number of Multiple Spanning Tree (MST) instances** | 64 | 64 |
| **Maximum number of VXLAN tunnel endpoints (VTEPs)** | 2000 | 2000 |

* More templates and scale number are on the roadmap. Please refer to Cisco Nexus 9000 Series Verified Scalability Guide documentation for the latest and exact scalability numbers validated for specific software.

## Environmental Properties

Table 5 lists the environmental properties, and Table 6 lists the weight for the Cisco Nexus 9200 platform switches.

**Table 5.** Environmental Properties

| Property | Description |
|---|---|
| **Operating temperature** | 32 to 104°F (0 to 40°C) |
| **Nonoperating (storage) temperature** | -40 to 158°F (-40 to 70°C) |
| **Humidity** | 5 to 95% (noncondensing) |
| **Altitude** | 0 to 13,123 ft (0 to 4000m) |

**Table 6.** Weight

| Component | Weight |
|---|---|
| **Cisco Nexus 92160YC-X without power supplies or fans** | 14.12 lb (6.4 kg) |
| **Cisco Nexus 9272Q without power supplies or fans** | 24.6 lb (11.2 kg) |
| **Cisco Nexus 92304QC without power supplies or fans** | 25.4 lb (11.5 kg) |
| **Cisco Nexus 9236C without power supplies or fans** | 18.2 lb (8.3 kg) |
| **1200W AC power supply** | 2.64 lb (1.2 kg) |
| **650W AC power supply** | 2.42 lb (1.1 kg) |
| **930W DC power supply** | 2.42 lb (1.1 kg) |

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| Component | Weight |
|---|---|
| **1200W HVDC/HVAC power supply** | 2.42 lb (1.1 kg) |
| **Fan tray: N9K-C9300-FAN3 or N9K-C9300-FAN3-B** | 1.42 lb (0.64 kg) |
| **Fan tray: NXA-FAN-30CFM-F or NXA-FAN-30CFM-B** | 0.92 lb (0.4 kg) |

## Regulatory Standards Compliance

Table 7 summarizes regulatory standards compliance for the Cisco Nexus 9200 platform switches.

**Table 7.** Regulatory Standards Compliance: Safety and EMC

| Specification | Description |
|---|---|
| **Regulatory compliance** | Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC |
| **Safety** | NEBS<br>• UL 60950-1 Second Edition<br>• CAN/CSA-C22.2 No. 60950-1 Second Edition<br>• EN 60950-1 Second Edition<br>• IEC 60950-1 Second Edition<br>• AS/NZS 60950-1<br>• GB4943 |
| **EMC: Emissions** | • 47CFR Part 15 (CFR 47) Class A<br>• AS/NZS CISPR22 Class A<br>• CISPR22 Class A<br>• EN55022 Class A<br>• ICES003 Class A<br>• VCCI Class A<br>• EN61000-3-2<br>• EN61000-3-3<br>• KN22 Class A<br>• CNS13438 Class A |
| **EMC: Immunity** | • EN55024<br>• CISPR24<br>• EN300386<br>• KN 61000-4 series |
| **RoHS** | The product is RoHS-6 compliant with exceptions for leaded-ball grid-array (BGA) balls and lead press-fit connectors |

## Supported Optics Modules

For details about the optics modules available and the minimum software release required for each supported module, visit http://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html.

## Ordering Information

Table 8 presents ordering information for the Cisco Nexus 9200 platform switches.

**Table 8.** Ordering Information

| Part Number | Product Description |
|---|---|
| **Base Part Number** | |
| **N9K-C92160YC-X** | Nexus 9200 with 48p 1/10G/25G SFP+ and 6p 40G QSFP or 4p 100G QSFP28 |
| **N9K-C9272Q** | Nexus 9200 with 72p 40G QSFP+ |
| **N9K-C92304QC** | Nexus 9200 with 56p 40G QSFP+ and 8p 100G QSFP28 |
| **N9K-C9236C** | Nexus 9200 with 36p 40G 100G QSFP28 |

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| Part Number | Product Description |
|---|---|
| **Power Supplies** | |
| **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 |
| **FAN** | |
| **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 |
| **Software** | |
| **N93-LAN1K9** | Enhanced L3 including full OSPF, EIGRP, BGP for Nexus 9200/9300 Platform |
| **DCNM-LAN-N93-K9** | DCNM license for Nexus 9200/9300 Platform |
| **L-NDB-FX-SWT-K9** | Data Broker license for Nexus 9200/9300 Platform |
| **Power Cords** | |
| **CAB-250V-10A-AR** | AC Power Cord - 250V, 10A - Argentina (2.5 meter) |
| **CAB-250V-10A-BR** | AC Power Cord - 250V, 10A - Brazil (2.1 meter) |
| **CAB-250V-10A-CN** | AC Power Cord - 250V, 10A - PRC (2.5 meter) |
| **CAB-250V-10A-ID** | AC Power Cord - 250V, 10A, South Africa (2.5 meter) |
| **CAB-250V-10A-IS** | AC Power Cord - 250V, 10A - Israel (2.5 meter) |
| **CAB-9K10A-AU** | Power Cord, 250VAC 10A 3112 Plug, Australia (2.5 meter) |
| **CAB-9K10A-EU** | Power Cord, 250VAC 10A CEE 7/7 Plug, EU (2.5 meter) |
| **CAB-9K10A-IT** | Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy (2.5 meter) |
| **CAB-9K10A-SW** | Power Cord, 250VAC 10A MP232 Plug, SWITZ (2.5 meter) |
| **CAB-9K10A-UK** | Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK (2.5 meter) |
| **CAB-9K12A-NA** | Power Cord, 125VAC 13A NEMA 5-15 Plug, North America (2.5 meter) |
| **CAB-AC-L620-C13** | North America, NEMA L6-20-C13 (2.0 meter) |
| **CAB-C13-C14-2M** | Power Cord Jumper, C13-C14 Connectors, 2 Meter Length (2 meter) |
| **CAB-C13-C14-AC** | Power cord, C13 to C14 (recessed receptacle), 10A (3 meter) |
| **CAB-C13-CBN** | Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors (0.7 meter) |
| **CAB-IND-10A** | 10A Power cable for India (2.5 meter) |
| **CAB-N5K6A-NA** | Power Cord, 200/240V 6A North America (2.5 meter) |
| **CAB-HVAC-SD-0.6M** | HVAC Power cable for Anderson-LS-25 |
| **CAB-HVAC-C14-2M** | HVAC power cable for C14, 2 meters (no more than 240 V) |
| **CAB-HVAC-RT-0.6M** | HVAC Power cable with right angle connector for RF-LS-25 |
| **Accessories** | |
| **N3K-C3064-ACC-KIT** | Nexus 3K/9K Fixed Accessory Kit |
| **N9K-C9300-ACK** | Nexus 9K Fixed Accessory Kit |
| **N9K-C9300-RMK** | Nexus 9K Rack Fixed Mount Kit |

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## Warranty

The Cisco Nexus 9200 platform has a 1-year limited hardware warranty. The warranty includes hardware replacement with a 10-day turnaround from receipt of a return materials authorization (RMA).

## Service and Support

Cisco offers a range of professional, solution, and product support services for each stage of your Cisco Nexus 9200 deployment:

- Cisco Data Center Quick Start Service for Cisco Nexus 9000 Series Switches: This offering provides consulting services that include technical advice and assistance to help deploy Cisco Nexus 9000 Series Switches.
- Cisco Data Center Accelerated Deployment Service for Cisco Nexus 9000 Series Switches: This service delivers planning, design, and implementation expertise to bring your project into production. The service also provides recommended next steps, an architectural high-level design, and operation-readiness guidelines to scale the implementation to your environment.
- Cisco Migration Service for Cisco Nexus 9000 Series Switches: This service helps you migrate from Cisco Catalyst® 6000 Series Switches to Cisco Nexus 9000 Series Switches.
- Cisco Product Support: Support service is available globally 24 hours a day, 7 days a week, for Cisco software and hardware products and technologies associated with Cisco Nexus 9000 Series Switches. Enhanced support options delivered by Cisco also include solution support for Cisco Application Centric Infrastructure (ACI), Cisco SMARTnet™ Service, and Cisco Smart Net Total Care™*.

For more information, visit http://www.cisco.com/go/services.

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## For More Information

For more information about the Cisco Nexus 9000 Series and latest software release information and recommendations, please visit http://www.cisco.com/go/nexus9000.

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Printed in USA C78-735989-01 04/16

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