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# Cisco Nexus 9300-EX and 9300-FX Platform Leaf Switches for Cisco Application Centric Infrastructure

# **Product Overview**

The Cisco<sup>®</sup> <u>Application Centric Infrastructure</u> (Cisco ACI<sup>™</sup>) solution in the data center is a holistic architecture with centralized automation and policy-based application profiles. The Cisco ACI solution provides a robust transport network for today's dynamic workloads. Cisco ACI is built on a network fabric that combines time-tested protocols with new innovations to create a highly flexible, scalable, and resilient architecture of low-latency, high-bandwidth links. This fabric delivers a network that can support the most demanding and flexible data center environments.

The Cisco ACI fabric consists of three major components:

- Cisco Application Policy Infrastructure Controller (APIC)
- Spine switches
- Leaf switches

Building on the success of first-generation Cisco Nexus<sup>®</sup> 9300 platform switches, the latest Cisco Nexus 9300-EX and 9300-FX platforms can collect comprehensive Cisco Tetration Analytics<sup>™</sup> telemetry information at line rate across all ports without adding any latency to the packets or negatively affecting switch performance. This telemetry information is exported every 100 milliseconds (ms) by default directly from the switch's application-specific integrated circuit (ASIC). This information consists of three types of data:

- Flow information: This information contains information about endpoints, protocols, ports, when the flow started, how long the flow was active, etc.
- Interpacket variation: This information captures any interpacket variations within the flow. Examples include variation in time to live (TTL), IP and TCP flags, payload length, etc.
- **Context details:** Context information is derived outside the packet header, including variation in buffer utilization, packet drops within a flow, association with tunnel endpoints, etc.

The Cisco Tetration Analytics platform consumes this telemetry data, and by using unsupervised machine learning and behavior analysis it can provide outstanding pervasive visibility across everything in your data center in real time. By using algorithmic approaches, the Cisco Tetration Analytics platform provides deep insights into applications and interactions, enabling dramatically simplified operations, a zero-trust model, and migration of applications to any programmable infrastructure. To learn more, go to <a href="http://www.cisco.com/go/tetration">http://www.cisco.com/go/tetration</a>.

These Layer 2 and 3 nonblocking switches support 1, 10, 25, 40, 50 and 100 Gigabit Ethernet; Fibre Channel over Ethernet (FCoE)<sup>1</sup>; and 8-, 16-, and 32-Gbps Fibre Channel<sup>1</sup> (native Fibre Channel support is available on 9300-FX Small Form-Factor Pluggable (SFP) models only), with up to 3.6 terabits per second (Tbps) of internal bandwidth. In addition, the 9300-FX switches support the IEEE 802.1ae MAC Security (MACsec) standard on all downlink and uplink ports, allowing traffic encryption at the physical layer and providing secure server, border leaf, and leaf-to-spine connectivity.

## Models

Table 1 lists the Cisco Nexus 9300-EX platform switches that support the Cisco ACI solution.

 Table 1.
 Cisco Nexus 9300-EX Platform Leaf Switches for Cisco ACI Solution

| Model                  | Description  |
|------------------------|--|
| Cisco Nexus 93180YC-EX | 48 x 10/25-Gbps fiber ports and 6 x 40/100-Gbps Quad SFP (QSFP28) ports      |
| Cisco Nexus 93108TC-EX | 48 x 10GBASE-T ports and 6 x 40/100-Gbps QSFP28 ports                        |
| Cisco Nexus 93180LC-EX | 24 x 40/50-Gbps Enhanced QSFP (QSFP+) ports and 6 x 40/100-Gbps QSFP28 ports |

The Cisco Nexus 93180YC-EX Switch (Figure 1) is a 1-rack-unit (1RU) switch with latency of less than 1 microsecond that supports 3.6 Tbps of bandwidth and over 2.6 billion packets per second (bpps). The 48 downlink ports on the 93180YC-EX can be configured to work as 1-, 10-, or 25-Gbps ports, offering deployment flexibility and investment protection. The 6 uplinks ports can be configured as 40- and 100-Gbps ports, offering flexible migration options. All ports support FCoE.

#### Figure 1. Cisco Nexus 93180YC-EX Switch



The Cisco Nexus 93108TC-EX Switch (Figure 2) is a 1RU switch that supports 2.16 Tbps of bandwidth and over 1.5 bpps. The 48 10GBASE-T downlink ports on the 93108TC-EX can be configured to work as 100-Mbps, 1-Gbps, or 10-Gbps ports. The 6 uplinks ports can be configured as 40- and 100-Gbps ports, offering flexible migration options. With 1/10GBASE-T support, the platform can deliver 10 Gigabit Ethernet over existing copper wire, enabling a low-cost upgrade from Cisco Catalyst 6500 Series Switches when the switch is used in a middle-of-rack (MoR) or end-of-row (EoR) configuration.

Figure 2. Cisco Nexus 93108TC-EX Switch



<sup>&</sup>lt;sup>1</sup> Check software release notes for the latest support.

The Cisco Nexus 93180LC-EX Switch is the industry's first 50-Gbps capable 1RU switch that supports 3.6 Tbps of bandwidth and over 2.6 bpps across 24 fixed 40/50-Gbps QSFP+ ports. Ports numbered 25, 27, 29, 30, 31, and 32 are the 6 uplinks ports, which can be configured as 40- and 100-Gbps ports, offering flexible migration options (Figure 3). This switch is capable of supporting flexible port configurations.<sup>2</sup>

Figure 3. Cisco Nexus 93180LC-EX Switch

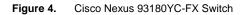
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Table 2 lists the Cisco Nexus 9300-FX platform switches that support the Cisco ACI solution.

Table 2. Cisco Nexus 9300-FX Platform Leaf Switches for Cisco ACI Solution

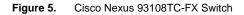
| Model                  | Description  |
|------------------------|--|
| Cisco Nexus 93180YC-FX | 48 x 10/25-Gbps fiber ports and 6 x 40/100-Gbps QSFP28 ports |
| Cisco Nexus 93108TC-FX | 48 x 10GBASE-T ports and 6 x 40/100-Gbps QSFP28 ports        |

The Cisco Nexus 93180YC-FX Switch (Figure 4) is a 1RU switch with latency of less than 1 microsecond that supports 3.6 Tbps of bandwidth. The 48 downlink ports on the 93180YC-FX can be configured to work as 1-, 10-, or 25-Gbps Ethernet or FCoE ports or as 8-, 16-, 32-Gbps Fibre Channel ports, converging primary storage and compute servers, back-end storage, and policy-based switching on the leaf node. The 6 uplinks ports can be configured as 40- and 100-Gbps Ethernet or FCoE ports, offering flexible migration options. All ports support wire-rate MACsec encryption.





The Cisco Nexus 93108TC-FX Switch (Figure 5) is a 1RU switch that supports 2.16 Tbps of bandwidth and over 1.5 bpps. The 48 10GBASE-T downlink ports on the 93108TC-FX can be configured to work as 100-Mbps, 1-Gbps, or 10-Gbps ports. The 6 uplinks ports can be configured as 40- and 100-Gbps Ethernet or FCoE ports, offering flexible migration options. With 1/10GBASE-T support, the platform can deliver 10 Gigabit Ethernet over existing copper wire, enabling a low-cost upgrade from Cisco Catalyst 6500 Series Switches when the switch is used in a MoR or EoR configuration. All ports support wire-rate MACsec encryption.





<sup>&</sup>lt;sup>2</sup> Capabilities to enable templates for different port configurations are on the software roadmap.

## Features and Benefits

The Cisco Nexus 9300 platform switches are high-density, nonblocking, low-power switches designed to work well in leaf-and-spine deployment in enterprise data centers, service provider facilities, and large virtualized and cloud computing environments.

The platform offers industry-leading density, performance, and capabilities with flexible port configurations that can support existing copper and fiber cabling (Tables 3 and 4). Please consult the Cisco ACI release notes and scalability guides for a detailed description of the differences between the 9300–EX and 9300-FX platforms.

| Feature                                    | Cisco Nexus 93180YC-EX  | Cisco Nexus 93108TC-EX  | Cisco Nexus 93180LC-EX  |
|--|---|---|---|
| Ports                                      | 48 x 10/25-Gbps and 6 x 40/100-Gbps<br>QSFP28 ports                                 | 48 x 10GBASE-T and 6 x 40/100-<br>Gbps QSFP28 ports                                 | 24 x 40/50-Gbps and 6 x 40/100-<br>Gbps QSFP28 ports                                    |
| Downlink supported speeds                  | 1/10/25-Gbps speeds   | 100-Mbps and 1/10-Gbps speeds   | 40/50-Gbps speeds   |
| CPU  | 4 cores   | 4 cores   | 4 cores   |
| System memory                              | 24 GB   | 24 GB   | 24 GB   |
| SSD drive                                  | 64 GB   | 64 GB   | 64 GB   |
| System buffer                              | 40 MB   | 40 MB   | 40 MB   |
| Management ports                           | 2 ports: 1 RJ-45 and 1 SFP+   | 2 ports: 1 RJ-45 and 1 SFP+   | 2 ports: 1 RJ-45 and 1 SFP+   |
| USB ports                                  | 1   | 1   | 1   |
| RS-232 serial ports                        | 1   | 1   | 1   |
| Power supplies (up to 2)                   | 650 watts (W) AC, 930W DC, or 1200W<br>HVAC/HVDC                                    | 650W AC, 930W DC, or 1200W<br>HVAC/HVDC   | 500W AC, 930W DC, or 1200W<br>HVAC/HVDC   |
| Typical power (AC/DC)                      | 210W  | 290W  | 220W  |
| Maximum power <sup>*</sup> (AC/DC)         | 470W  | 499W  | 500W  |
| Input voltage (AC)                         | 100 to 240V   | 100 to 240V   | 100 to 240V   |
| Input voltage (high-<br>voltage AC [HVAC]) | 200 to 277V   | 200 to 277V   | 200 to 277V   |
| Input voltage (DC)                         | -48 to -60V   | -48 to -60V   | -48 to -60V   |
| Input voltage (high-<br>voltage DC [HVDC]) | -240 to -380V   | -240 to -380V   | –240 to –380V   |
| Frequency (AC)                             | 50 to 60 Hz   | 50 to 60 Hz   | 50 to 60 Hz   |
| Fans                                       | 4   | 4   | 4   |
| Airflow                                    | Port-side intake and exhaust  | Port-side intake and exhaust  | Port-side intake and exhaust  |
| Physical dimensions<br>(H x W x D)         | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)                                    | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)                                    | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)  |
| Acoustics                                  | 48.5 dBA at 40% fan speed, 64.9 dBA at 70% fan speed, and 77.8 dB at 100% fan speed | 48.6 dBA at 40% fan speed, 65.2 dBA at 70% fan speed, and 76.5 dB at 100% fan speed | 49.9 dBA at 50% fan speed, 66<br>dBA at 70% fan speed, and 73.9<br>dB at 100% fan speed |
| RoHS compliance                            | Yes   | Yes   | Yes   |

Table 3. Specifications for Cisco Nexus 9300 EX Platform Leaf Switches for Cisco ACI Solution

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.

| Feature                                | Cisco Nexus 93180YC-FX  | Cisco Nexus 93108TC-FX  |
|--|---|---|
| Ports                                  | 48 x 10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports                                  | 48 x 10GBASE-T and 6 x 40/100-Gbps QSFP28 ports                                     |
| Downlink supported speeds              | 1/10/25-Gbps Ethernet<br>8/16/32-Gbps Fibre Channel                               | 100-Mbps and 1/10-Gbps speeds   |
| CPU                                    | 6 cores   | 4 cores   |
| System memory                          | 64 GB   | 24 GB   |
| SSD drive                              | 128 GB  | 128 GB  |
| System buffer                          | 40 MB   | 40 MB   |
| Management ports                       | 1 RJ-45 port<br>L1 and L2 ports are not used in ACI                               | 2 ports: 1 RJ-45 and 1 SFP+   |
| USB ports                              | 1   | 1   |
| RS-232 serial ports                    | 1   | 1   |
| Power supplies (up to 2)               | 500W AC, 930W DC, or 1200W HVAC/HVDC  | 500W AC, 930W DC, or 1200W HVAC/HVDC  |
| Typical power (AC/DC)                  | 260W  | 276W  |
| Maximum power <sup>*</sup> (AC/DC)     | 425W  | 460W  |
| Input voltage (AC)                     | 100 to 240V   | 100 to 240V   |
| Input voltage (high-voltage AC [HVAC]) | 200 to 277V   | 200 to 277V   |
| Input voltage (DC)                     | -48 to -60V   | -48 to -60V   |
| Input voltage (high-voltage DC [HVDC]) | -240 to -380V   | -240 to -380V   |
| Frequency (AC)                         | 50 to 60 Hz   | 50 to 60 Hz   |
| Fans                                   | 4   | 4   |
| Airflow                                | Port-side intake and exhaust  | Port-side intake and exhaust  |
| Physical dimensions (H x W x D)        | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)                                  | 1.72 x 17.3 x 22.5 in.<br>(4.4 x 43.9 x 57.1 cm)                                    |
| Acoustics                              | 57 dBA at 40% fan speed, 68.9 dBA at 70% fan speed, and 77.4 dB at 100% fan speed | 64.2 dBA at 40% fan speed, 68.9 dBA at 70% fan speed, and 77.8 dB at 100% fan speed |
| RoHS compliance                        | Yes   | Yes   |

#### Table 4. Specifications for Cisco Nexus 9300 FX Platform Leaf Switches for Cisco ACI Solution

Table 5 summarizes the features and benefits of the Cisco Nexus 9300 platform.

#### Table 5. Features of Cisco Nexus 9300 Platform Leaf Switches for Cisco ACI Solution

| Feature                              | Benefit   |
|--------------------------------------|---|
| Predictable high<br>performance      | Low latency with up to 3.6 Tbps of bandwidth enables customers to build a robust switch fabric scaling from as few as 200 10-Gbps server ports to more than 200,000 10-Gbps server ports.   |
| Increased integrated<br>buffer space | Up to a total of 40 MB of integrated shared buffer space allows better management of speed mismatch between access and uplink ports.  |
| Designed for availability            | Hot-swappable, redundant power supplies and fan trays increase availability.  |
| Flexible airflow configuration       | Both port-side intake and port-side exhaust airflow configurations are supported.   |
| Power efficiency                     | All Cisco Nexus 9000 Series power supplies are 80 Plus Platinum rated, providing at least 90% efficiency with 20% utilization.  |
| Advanced optics                      | Cisco offers a pluggable 40 Gigabit Ethernet QSFP+ transceiver that enables customers to use existing 10 Gigabit Ethernet data center cabling to support 40 Gigabit Ethernet connectivity. This technology facilitates adoption of 40 Gigabit Ethernet with no cable infrastructure upgrade cost. |
| Unified ports                        | Fibre Channel interfaces are supported for back-end storage connectivity (93180YC-FX only).   |
| Security                             | Wire-rate MACsec encryption is available on all ports (9300-FX models only).  |

#### **Power and Cooling**

The switches are designed to adapt to any data center hot-aisle and cold-aisle configuration. The switches can be installed with ports facing the rear, simplifying cabling of server racks by putting the ports closest to the servers they support. The switches can be installed with the ports facing the front, simplifying the upgrade of existing racks of switches in which network cables are wired to the front of the rack. The two deployment modes support front-to-back cooling through a choice of power supplies and fan trays designed with opposite airflow directions, denoted by red and blue tabs.

These two deployment modes are available with AC power supplies. Additionally, a 930W DC power supply (with port-side intake and port-side exhaust) can be used for deployments with –48 to –60V DC power. For high-voltage AC or DC environments, customers can also choose the N9K-PUV-1200W, which supports either 90 to 277V AC or –200 to –380V DC power and both airflow directions in one power supply unit.

To enhance availability, the platform supports 1+1 redundant hot-swappable 80 Plus Platinum-certified power supplies and hot swappable N+1 redundant fan trays.

#### Software Requirements

The Cisco Nexus 9300 platform leaf switches run on Cisco ACI software on a 64-bit Linux kernel (Release 3.4.10) with a single binary image that supports both Cisco ACI modular spine switches (Cisco Nexus 9500 platform) and fixed-port switches (Cisco Nexus 9300 platform). The single image incorporates both the Linux kernel and Cisco ACI software so that the switch can be booted through a standard Linux kickstart process.

For the latest software release information and recommendations, please refer to the product bulletin at <u>http://www.cisco.com/go/aci</u> and the <u>Cisco Feature Navigator</u>.

#### **Environmental Properties**

Table 6 lists the environmental properties of the Cisco Nexus 9300 platform switches, and Table 7 lists the weights of Cisco Nexus 9300 platform switches.

| Property                           | Cisco Nexus 9300 Platform   |
|------------------------------------|-----------------------------|
| 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. Environmental Properties

#### Table 7. Weight

| Component   | Weight           |
|---|------------------|
| Cisco Nexus 93180YC-EX without power supplies or fans | 17.2 lb (7.8 kg) |
| Cisco Nexus 93108TC-EX without power supplies or fans | 17.7 lb (8.0 kg) |
| Cisco Nexus 93180LC-EX without power supplies or fans | 17.2 lb (7.8 kg) |
| Cisco Nexus 93180YC-FX without power supplies or fans | 17.4 lb (7.9 kg) |
| Cisco Nexus 93108TC-FX without power supplies or fans | 17.4 lb (7.9 kg) |
| 500W AC power supply                                  | 2.42 lb (1.1 kg) |

| Component                    | Weight           |
|------------------------------|------------------|
| 650W AC power supply         | 2.42 lb (1.1 kg) |
| 1200W AC power supply        | 2.64 lb (1.2kg)  |
| 930W DC power supply         | 2.42 lb (1.1 kg) |
| 1200W HVDC/HVAC power supply | 2.42 lb (1.1 kg) |

# **Regulatory Standards Compliance**

Table 8 summarizes regulatory standards compliance for the Cisco Nexus 9300 platform.

 Table 8.
 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                | <ul> <li>UL 60950-1 Second Edition</li> <li>CAN/CSA-C22.2 No. 60950-1 Second Edition</li> <li>EN 60950-1 Second Edition</li> <li>IEC 60950-1 Second Edition</li> <li>AS/NZS 60950-1</li> <li>GB4943</li> </ul>  |
| EMC: Emissions        | <ul> <li>47CFR Part 15 (CFR 47) Class A</li> <li>AS/NZS CISPR22 Class A</li> <li>CISPR22 Class A</li> <li>EN55022 Class A</li> <li>ICES003 Class A</li> <li>VCCI Class A</li> <li>EN61000-3-2</li> <li>EN61000-3-3</li> <li>KN22 Class A</li> <li>CNS13438 Class A</li> </ul> |
| EMC: Immunity         | <ul> <li>EN55024</li> <li>CISPR24</li> <li>EN300386</li> <li>KN 61000-4 series</li> </ul>   |
| RoHS                  | The product is RoHS-6 compliant with exceptions for leaded-ball grid-array (BGA) balls and lead press-fit connectors  |

# Supported Optics Pluggable

For details about the optics modules available and the minimum software release required for each supported optics module, visit

http://www.cisco.com/en/US/products/hw/modules/ps5455/products\_device\_support\_tables\_list.html

#### **Ordering Information**

Table 9 presents ordering information for the Cisco Nexus 9300 platform. Note that you can order the Cisco Nexus 2000 Series Fabric Extenders either separately or along with the Cisco Nexus 9300 platform switches.

Table 9. Ordering Information

| Part Number     | Product Description                                       |
|-----------------|---|
| Hardware        |   |
| N9K-C93180YC-EX | Nexus 9300 with 48p 1/10G/25G SFP+ and 6p 40G/100G QSFP28 |
| N9K-C93108TC-EX | Nexus 9300 with 48p 10G BASE-T and 6p 40G/100G QSFP28     |
| N9K-C93180LC-EX | Nexus 9300 with 24p 40/50G QSFP+ and 6p 40G/100G QSFP28   |

| Part Number                    | Product Description   |
|--------------------------------|---|
| N9K-C93180YC-FX                | Nexus 9300 with 48p 1/10G/25G SFP+ and 6p 40G/100G QSFP28, MACsec, and Unified Ports    |
| N9K-C93108TC-FX                | Nexus 9300 with 48p 10G BASE-T and 6p 40G/100G QSFP28, MACsec                           |
| NXA-PAC-500W-PI                | Nexus 9000 500W AC PS, Port-side Intake   |
| NXA-PAC-500W-PE                | Nexus 9000 500W AC PS, Port-side Exhaust  |
| NXA-PAC-650W-PI                | Nexus 9000 650W AC PS, Port-side Intake, NEBs complaint                                 |
| NXA-PAC-650W-PE                | Nexus 9000 650W AC PS, Port-side Exhaust, NEBs complaint                                |
| NXA-PDC-930W-PE                | Nexus 9000 930W DC PS, Port-side Exhaust  |
| NXA-PDC-930W-PI                | Nexus 9000 930W DC PS, Port-side Intake   |
| UCSC-PSU-930WDC                | 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 HVAC/HVDC |
| NXA-FAN-30CFM-F                | Nexus 9300 Fan, Forward airflow (Port-side Exhaust)                                     |
| NXA-FAN-30CFM-B                | Nexus 9300 Fan, Reverse airflow (Port-side Intake)                                      |
| Cisco Tetration Analytics Lice | nse   |
| N93-TTR1K9                     | Telemetry License for Nexus 9300 Platform   |
| Cisco APIC Leaf Software Lice  | enses   |
| ACI-N9K-48X                    | ACI SW license for a 48p 1/10G Nexus 9K   |
| ACI-N9K-96X                    | ACI SW license for a 96p 1/10G Nexus 9K   |
| ACI-N9K-32Q                    | ACI SW license for a 32p 40G Nexus 9K   |
| Cisco ACI Fabric Extender So   | ftware Licenses   |
| ACI-F48X                       | ACI SW license for a 48p 1/10G Nexus 2K   |
| ACI-F32X                       | ACI SW license for a 32p 1/10G Nexus 2K   |
| ACI-F16X                       | ACI SW license for a 16p 1/10G Nexus B22 FEX  |
| ACI-F48G                       | ACI SW license for a 48p 1G Nexus 2K  |
| Cisco Application Virtual Swit | ch (AVS)  |
| ACI-AVS-48                     | ACI Software License for AVS: 48 Instances  |
| ACI-AVS-96                     | ACI Software License for AVS: 96 Instances  |
| 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)                             |

| Part Number       | Product Description  |
|-------------------|--|
| 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)                      |
| Accessories       |  |
| N3K-C3064-ACC-KIT | Nexus 3K/9K Accessory Kit  |

#### Warranty

The Cisco Nexus 9300 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 wide range of services to help accelerate your success in deploying and optimizing the Cisco Nexus 9300 platform in your data center. The innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners and are focused on helping you increase operation efficiency and improve your data center network. Cisco Advanced Services use an architecture-led approach to help you align your data center infrastructure with your business goals and achieve long-term value. Cisco SMARTnet<sup>™</sup> Service helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources.

With this service, you can take advantage of the Cisco Smart Call Home service capability, which offers proactive diagnostics and real-time alerts on your Cisco Nexus 9300 platform. Spanning the entire network lifecycle, Cisco Services offerings help increase investment protection, optimize network operations, support migration operations, and strengthen your IT expertise.

#### Cisco Capital Financing to Help You Achieve Your Objectives

Cisco Capital<sup>®</sup> financing can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce capital expenditures (CapEx), accelerate your growth, and optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital financing is available in more than 100 countries. Learn more.

#### For More Information

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



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