

# Cisco Nexus 9000 Series NX-OS Release Notes

Release 10.4(6)M

**Note:** The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

## Introduction

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.4(6)M for use on the Cisco Nexus 9000 Series switches.

| Date              | Description                        |
|-------------------|------------------------------------|
| September 2, 2025 | Release 10.4(6)M became available. |

## Software Features

There are no new software features introduced in Cisco NX-OS Release 10.4(6)M.

## Hardware Features

There are no new hardware features introduced in Cisco NX-OS Release 10.4(6)M.

## Release Image

In Cisco NX-OS Release 10.4(6)M, the following two 64-bit images are supported:

- The 64-bit Cisco NX-OS image filename with “nxos64-cs” as the prefix (for example, nxos64-cs.10.4.6.M.bin) is supported on all Cisco Nexus 9000 series switches except Cisco Nexus 9500 -R and -R2 switches and cards.
- The 64-bit Cisco NX-OS image filename with “nxos64-msll” as the prefix (for example, nxos64-msll.10.4.6.M.bin) is supported on Cisco Nexus 9000 Series -R and -R2 modular switches.

**Note:** The 32-bit image is no longer supported.

## Open Issues

| Bug ID                     | Headline                                                                             |
|----------------------------|--------------------------------------------------------------------------------------|
| <a href="#">CSCwq07875</a> | SPAN Session not mirroring some traffic after SPAN SRC or DST interfaces are bounced |
| <a href="#">CSCwq32191</a> | N9K -FX3: VXLAN storm-control DCI bandwidth does not update after BGW reload         |
| <a href="#">CSCwq38959</a> | Traffic failed over ND_ISSU with mixed speed (1G/2.5G)                               |
| <a href="#">CSCwq52210</a> | Multiple Ports flaps on N9K-X96136YC-R when one port goes down                       |

## Resolved Issues

Click the bug ID to access the Bug Search Tool and see additional information about the bug.

| Bug ID                     | Headline                                                                                                        |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCwo13810</a> | STP is blocked on the VLAN mapping port after shut/no shut the port                                             |
| <a href="#">CSCwo49393</a> | When LACP role is same on both vPC peers, LACP role election not triggered when KA/PL is brought up             |
| <a href="#">CSCwo81840</a> | MAC gets aged out every 1h, even though there's unicast traffic coming into the port                            |
| <a href="#">CSCwo41002</a> | N9500-R: Disable mac learning on additional higher range internal ports                                         |
| <a href="#">CSCwp01976</a> | In OSPFv3, the path selection for E1 type route is not working properly for some prefixes.                      |
| <a href="#">CSCwo48652</a> | cfs ipv4 distribute command is no longer present in running-config after downgrade to 9.3.x.                    |
| <a href="#">CSCwo32195</a> | SFTP copy command does not use specified SSH port                                                               |
| <a href="#">CSCwo69188</a> | SNMP syslogs stating ACL not found despite being present                                                        |
| <a href="#">CSCwo94050</a> | N9K-C93108TC-FX3P - PoE Interfaces Require Manual Shut/No Shut to Power Up After Cable Insertion                |
| <a href="#">CSCwo25976</a> | Sflow sampling incorrectly outgoing multicast traffic on L3 interface                                           |
| <a href="#">CSCwp29610</a> | N9k VXLAN prefixes are installed in FIB without NVE Flag                                                        |
| <a href="#">CSCwq23068</a> | kernel panic at mts_sys_get_HA_state                                                                            |
| <a href="#">CSCwo61250</a> | Delay in sending SA message from originating RP to MSDP peer                                                    |
| <a href="#">CSCwo36973</a> | ip igmp snooping querier x.x.x.x is not seen on upgrading N9K switch                                            |
| <a href="#">CSCwo74023</a> | N9K object-group editing causes aclqos hap-reset, ASIC errors and Module restart                                |
| <a href="#">CSCwp03577</a> | N9K-C93108TC-FX3 - The 1G link comes up on the peer device after the FX3 reload and not in a system ready state |
| <a href="#">CSCwo66912</a> | Upgrade from 9.3(x) to 10.4(5) fails due to SRG processing failed                                               |
| <a href="#">CSCwp84105</a> | N9K-C9508-FM-R or R2 OBFL diagnostic errors observed for all FM slots                                           |
| <a href="#">CSCwo16083</a> | Error while removing class from policy map                                                                      |
| <a href="#">CSCwo66097</a> | Nexus 9000 - syslogd crash after changing remote logging host configuration                                     |
| <a href="#">CSCwq41205</a> | N9K - QSFP-100G-SR1.2 is treated as a "non-fiber port" by UDLD.                                                 |
| <a href="#">CSCwj18858</a> | Need user friendly message when "install all nxos" fails due to no space in /nxos/tmp                           |
| <a href="#">CSCwo57666</a> | N9k IS-IS Calculates incorrect metric for Port-channel Interfaces                                               |
| <a href="#">CSCwo25514</a> | gNMI get RPC for the path /System/ptp-items/clockIdentity' returns NULL value                                   |
| <a href="#">CSCwp83852</a> | User role modifications not applied in N9K                                                                      |
| <a href="#">CSCwo88419</a> | nginx_dme process crashes repeatedly                                                                            |
| <a href="#">CSCwq07875</a> | SPAN Session not mirroring some traffic after SPAN SRC or DST interfaces are bounced                            |

| Bug ID                     | Headline                                                                                                                                                     |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCwq49850</a> | Random macsec packets(control and data frame) corrupted leading to macsec tear down or ospf/bfd to be impacted                                               |
| <a href="#">CSCwp00709</a> | High CPU due to vsh.bin with rapid logging of sev 0,1,2 syslogs                                                                                              |
| <a href="#">CSCwp87790</a> | Nexus N9K-C9364D-GX2A interface stays down after replacing the transceiver QDD-400G with a QSFP-100G                                                         |
| <a href="#">CSCwo84711</a> | N9K: vsh.bin crash and error EOL function pfm_cli_show_inventory from library libpfm.so                                                                      |
| <a href="#">CSCwo90376</a> | [Telemetry] Large number of AAAA DNS queries are sent by the nexus switch to the DNS server to resolve telegraf hostname, even though IPv6 is not configured |
| <a href="#">CSCwo13431</a> | N9K/CR: config replace failing if snmp-user admin without auth is present in the config                                                                      |
| <a href="#">CSCwo56566</a> | "Port is not compatible" when removing PVLAN config and adding the interfaces to the port-channel                                                            |
| <a href="#">CSCwq20968</a> | Fabric link tracking is not working as expected with vPC Fabric Peering when peer keep-alive link is down                                                    |
| <a href="#">CSCwq00225</a> | 'ipv6 link-local' configuration missing after reload                                                                                                         |
| <a href="#">CSCwo08055</a> | NXA-PAC-1100W-PE PSU Reported as "fail/shutdown" but Still Operational in fex mode                                                                           |
| <a href="#">CSCwn98717</a> | snmpwalk/snmpbulkwalk does not print outputs for some port-channels under certain conditions                                                                 |
| <a href="#">CSCwp17526</a> | N9K PVLAN primary does not work if port-VLAN mapping is configured on the same port                                                                          |
| <a href="#">CSCwq27803</a> | Bandwidth remaining percent values are not honored on R series Line card                                                                                     |
| <a href="#">CSCwp22707</a> | N9K-C93360YC-FX2 - PSU fans running at 100% after upgrade                                                                                                    |
| <a href="#">CSCwp21192</a> | Upgrading Nexus 93108TC-FX3P in Fex Mode from 9.3(11) to 10.4(4)M may cause specific FEX to not boot                                                         |
| <a href="#">CSCwp27254</a> | Nexus 9000: VPC Fabric Port Status Stuck UP or DOWN After Virtual Peer-Link Reconfiguration                                                                  |
| <a href="#">CSCwn60154</a> | Auto RP on Silicon One platform                                                                                                                              |
| <a href="#">CSCwn81911</a> | N9K "copy bootflash: run" of "conf sess vty-acl" results in "Failed to complete Verification"                                                                |
| <a href="#">CSCwp95485</a> | SYN-TIMEOUT and FINRST-TIMEOUT timers activate when ASCII reload happens, even with no tcp-nat tcam carved                                                   |
| <a href="#">CSCwp08416</a> | N9K Configured with the `vlan dot1q tag native` global command may drop traffic on the port with SrcId 0                                                     |
| <a href="#">CSCwp61385</a> | NXOS 10.3.6 missing OID 1.3.6.1.4.1.9.9.691.1.1.2.1 CefexConfigEntry in snmpwalk                                                                             |
| <a href="#">CSCwq32191</a> | N9K -FX3: VXLAN storm-control DCI bandwidth does not update after BGW reload                                                                                 |
| <a href="#">CSCwi07291</a> | N9K snmp-server enable traps lldp lldpRemTablesChange duplicated after upgrade                                                                               |
| <a href="#">CSCwp16908</a> | Improve proper handling when there is a ACT2 failure for chassis/Backplane                                                                                   |
| <a href="#">CSCwn80826</a> | Packets received on orphan port not on module 1 not sent to peer-link                                                                                        |

| Bug ID                     | Headline                                                                                                                                                 |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCwp04483</a> | Nexus 9408: LEM is slot 6 showing 0 origin timestamp in PTP sync message on boot                                                                         |
| <a href="#">CSCwo80263</a> | Inconsistent switch memory usage between CLI and DME                                                                                                     |
| <a href="#">CSCwo90314</a> | When the aaa group1 cannot access the TACACS Server but the source-interface remains up, the permissions obtained by the role are abnormal               |
| <a href="#">CSCwq14936</a> | Issue with RIP Summary Route Propagation on Nexus 9000                                                                                                   |
| <a href="#">CSCwo35552</a> | Nexus 3000/9000: VPC Interfaces Suspended due to "Invalid Argument to Function Call"                                                                     |
| <a href="#">CSCwn82520</a> | NXOS 10.3.6 link down when connected ISR speed manually set to 100                                                                                       |
| <a href="#">CSCwp58949</a> | "ip igmp static-oif route-map " entries count towards ICAM PBR sequence                                                                                  |
| <a href="#">CSCwo61854</a> | CR error "Operation failed because of conversion of user config file failed." due to BGP network string                                                  |
| <a href="#">CSCwo92631</a> | N9K: Macsec-psk no-show removes key-octet-string on upgrade                                                                                              |
| <a href="#">CSCwn97241</a> | LLDP flag "UPOE Supported" set to "Yes" on non-poe port                                                                                                  |
| <a href="#">CSCwo42643</a> | Nexus 93180YC-FX3 : NAT fails to translate flows after reaching 2K tcam entries                                                                          |
| <a href="#">CSCwo08994</a> | ERROR: Cannot apply config on a port that is already a member of a port channel.                                                                         |
| <a href="#">CSCwo60636</a> | Nexus 9408 - On occasion ASIC MAC fault interrupts are missed, resulting in down links staying connected.                                                |
| <a href="#">CSCwo97446</a> | XCVR EEPROM Read/Write Behavior Change                                                                                                                   |
| <a href="#">CSCwp02936</a> | N9k triggers a kernel panic due to memory leak in ipqosmgr                                                                                               |
| <a href="#">CSCwp25644</a> | N9k PIDs brings down interfaces for laser cuts less than debounce timer                                                                                  |
| <a href="#">CSCwn21575</a> | Intermittent: HW vs SW VLAN membership inconsistency on FX DUT PoCh member                                                                               |
| <a href="#">CSCwn27011</a> | NxOS IPv6 Static Route remains valid when interface to reach next-hop is down                                                                            |
| <a href="#">CSCwp15766</a> | Unable to configure the MTU 1500 when creating port-channel sub interface via RESTCONF:PATCH                                                             |
| <a href="#">CSCwo09087</a> | NAT stats are not cleared on doing clear copp statistics in QP TOR with nat traffic                                                                      |
| <a href="#">CSCwp03035</a> | iBGP Routes Cannot Be Redistributed into OSPF                                                                                                            |
| <a href="#">CSCwp22815</a> | 93600CD-GX buffer wedge post upgrade                                                                                                                     |
| <a href="#">CSCwq31398</a> | SNMP-Server Community string not displaying 32 character community                                                                                       |
| <a href="#">CSCwq58774</a> | When sub-interface of an access-side Layer3 Port-Channel (i.e. Po1.100) is added, MPLS traffic is dropped on the MPLS-enabled interface where it arrived |
| <a href="#">CSCwp19152</a> | NTP MTS build up leading to copy run start and show cli failure                                                                                          |
| <a href="#">CSCwo01259</a> | Multiple BGP neighbour flaps due to unrelated SVI interface shut/no shut.                                                                                |

| Bug ID                     | Headline                                                                                                      |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCwo94447</a> | Type 6 primary key fails to get programmed post multi-hop-upgrade + aaa config changes to 10.4.x              |
| <a href="#">CSCwo52387</a> | Link with SFP-10G-T-X module shows not connected when configured with 100Mbps                                 |
| <a href="#">CSCwq10716</a> | Light levels on FEX report different values after NX-OS upgrade                                               |
| <a href="#">CSCwo72997</a> | N9K Mroute is getting deleted/expired every 4-5 minutes.                                                      |
| <a href="#">CSCwo28609</a> | Nexus stops responding to SNMP requests for OID "1.3.6.1.2.1.17.2.5"                                          |
| <a href="#">CSCwk78898</a> | tahusd - EDMA stuck seen on N9K-C9364C-GX                                                                     |
| <a href="#">CSCwm64503</a> | Netconf-replace failure because of "vpc orphan-port suspend" CLI                                              |
| <a href="#">CSCwp90936</a> | N9K/N3K unexpected reload due to sysmgr shutdown                                                              |
| <a href="#">CSCwo45133</a> | N9K improvement to save power debug register2 in obfl                                                         |
| <a href="#">CSCwo58794</a> | BFD reset on the N9K-GX's Macsec enabled 400G interfaces with more than 10G bidirectional traffic             |
| <a href="#">CSCwp15191</a> | DME "operErrDisQual" state "link-flap-err" not restored to "up" after interface error disabled state recovery |
| <a href="#">CSCwo52934</a> | N9K-C9316D-GX management interface will not come up with 1Gb SFP                                              |
| <a href="#">CSCwn53876</a> | The "show logging log" command output is displaying log entries in an incorrect timestamp order.              |
| <a href="#">CSCwp19413</a> | N9k Telemetry stops streaming under certain conditions                                                        |
| <a href="#">CSCwn96490</a> | BRIDGE_ASSURANCE_UNBLOCK msg not shown when bridge assurance block restored                                   |
| <a href="#">CSCwo65541</a> | N9K: Due to exceeding 78 characters, the track config shows in show run track, not in show run                |
| <a href="#">CSCwq31023</a> | Wrong dot1q tag sent on sub-interface causing packet drops                                                    |
| <a href="#">CSCwo13546</a> | Incorrect CR patch for bmp-server initial-refresh delay                                                       |
| <a href="#">CSCwo18785</a> | The transceiver doesn't support this speed while configure 200G on QSFP-200G-DAC                              |
| <a href="#">CSCwm53949</a> | Post Active linkflap in flexlink, discrepancy in sh ip igmp snooping group output                             |
| <a href="#">CSCwq28687</a> | Observing telemetry crash post issu 10.4(6) – 10.5(3)                                                         |
| <a href="#">CSCwo02923</a> | Rapid VRF delete/add causes auto RD to be out of sync in DME DB                                               |
| <a href="#">CSCwp04480</a> | PTP SMPTE Management messages are sent with extra data.                                                       |
| <a href="#">CSCwq26438</a> | Memory leak and potential crash for nfm process                                                               |
| <a href="#">CSCwo97452</a> | BV stats has an endless loop in SDK                                                                           |

## General/Known Issues

There are no general/known issues in this release.

## Device Hardware

The following tables list the Cisco Nexus 9000 Series hardware that Cisco NX-OS Release 10.4(6)M supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 9000 Series device.

**Table 1.** Cisco Nexus 9800 Switches

| Product ID | Description                                                                                                                            |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| N9K-C9808  | 16-RU modular switch with slots for up to 8 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 3 power trays. |
| N9K-C9804  | 10-RU modular switch with slots for up to 4 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 2 power trays. |

**Table 2.** Cisco Nexus 9800 Series Line Cards

| Product ID     | Description                                                            |
|----------------|------------------------------------------------------------------------|
| N9K-X9836DM-A  | Cisco Nexus 9800 36-port 400G QSFP-DD Line Card with MACsec.           |
| N9K-X98900CD-A | Cisco Nexus 9800 14-port 400G QSFP-DD + 34-port 100G QSFP28 Line Card. |

**Table 3.** Cisco Nexus 9800 Series Fabric Modules

| Product ID     | Description                                       |
|----------------|---------------------------------------------------|
| N9K-C9808-FM-A | Cisco Nexus 9800 Fabric Module for 8-slot Chassis |
| N9K-C9804-FM-A | Cisco Nexus 9800 Fabric Module for 4-slot Chassis |

**Table 4.** Cisco Nexus 9800 Supervisor Module

| Product ID      | Description                                 |
|-----------------|---------------------------------------------|
| N9K-C9800-SUP-A | Cisco Nexus 9800 Platform Supervisor Module |

**Table 5.** Cisco Nexus 9800 Fans and Fan Trays

| Product ID      | Description                                                           |
|-----------------|-----------------------------------------------------------------------|
| N9K-C9808-FAN-A | Cisco Nexus 9800 8-slot chassis fan tray (1 <sup>st</sup> Generation) |
| N9K-C9804-FAN-A | Cisco Nexus 9800 4-slot chassis fan tray (1 <sup>st</sup> Generation) |

**Table 6.** Cisco Nexus 9800 Power Supplies

| Product ID       | Description                                        |
|------------------|----------------------------------------------------|
| NXK-HV6.3KW20A-A | Cisco Nexus 9800 6,300W 20A AC and HV Power Supply |

**Table 7.** Cisco Nexus 9500 Switches

| Product ID | Description                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N9K-C9504  | 7-RU modular switch with slots for up to 4 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 4 power supplies.    |
| N9K-C9508  | 13-RU modular switch with slots for up to 8 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 8 power supplies.   |
| N9K-C9516  | 21-RU modular switch with slots for up to 16 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 10 power supplies. |

**Table 8.** Cisco Nexus 9500 Cloud Scale Line Cards

| Product ID      | Description                                                                                               | Maximum Quantity |                  |                  |
|-----------------|-----------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|
|                 |                                                                                                           | Cisco Nexus 9504 | Cisco Nexus 9508 | Cisco Nexus 9516 |
| N9K-X9716D-GX   | Cisco Nexus 9500 16-port 400G QSFP-DD Line Card                                                           | 4                | 8                | N/A              |
| N9K-X9736C-FX   | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card                                         | 4                | 8                | 16               |
| N9K-X9788TC-FX  | Cisco Nexus 9500 48-port 1/10-G BASE-T Ethernet and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card       | 4                | 8                | 16               |
| N9K-X97160YC-EX | Cisco Nexus 9500 48-port 10/25-Gigabit Ethernet SFP28 and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card | 4                | 8                | 16               |
| N9K-X9732C-FX   | Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 Line Card                                         | 4                | 8                | 16               |
| N9K-X9732C-EX   | Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 Line Card                                         | 4                | 8                | 16               |
| N9K-X9736C-EX   | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card                                         | 4                | 8                | 16               |

**Table 9.** Cisco Nexus 9500 R-Series Line Cards

| Product ID    | Description                                                       | Maximum Quantity |                  |
|---------------|-------------------------------------------------------------------|------------------|------------------|
|               |                                                                   | Cisco Nexus 9504 | Cisco Nexus 9508 |
| N9K-X9636C-R  | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card | 4                | 8                |
| N9K-X9636C-RX | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card | 4                | 8                |
| N9K-X9636Q-R  | Cisco Nexus 9500 36-port 40-Gigabit Ethernet QSFP Line Card       | 4                | 8                |

| Product ID     | Description                                                                                                | Maximum Quantity |                  |
|----------------|------------------------------------------------------------------------------------------------------------|------------------|------------------|
|                |                                                                                                            | Cisco Nexus 9504 | Cisco Nexus 9508 |
| N9K-X96136YC-R | Cisco Nexus 9500 16-port 1/10 Gigabit, 32-port 10/25 Gigabit, and 4-port 40/100 Gigabit Ethernet Line Card | 4                | 8                |
| N9K-X9624D-R2  | Cisco Nexus 9500 24-port 400-Gigabit QDD Line Card                                                         | Not supported    | 8                |

**Table 10.** Cisco Nexus 9500 Cloud Scale Fabric Modules

| Product ID      | Description                                               | Minimum | Maximum |
|-----------------|-----------------------------------------------------------|---------|---------|
| N9K-C9504-FM-E  | Cisco Nexus 9504 100-Gigabit cloud scale fabric module    | 4       | 5       |
| N9K-C9504-FM-G  | Cisco Nexus 9500 4-slot 1.6Tbps cloud scale fabric module | 4       | 5       |
| N9K-C9508-FM-E  | Cisco Nexus 9508 100-Gigabit cloud scale fabric module    | 4       | 5       |
| N9K-C9508-FM-E2 | Cisco Nexus 9508 100-Gigabit cloud scale fabric module    | 4       | 5       |
| N9K-C9508-FM-G  | Cisco Nexus 9500 8-slot 1.6Tbps cloud-scale fabric module | 4       | 5       |
| N9K-C9516-FM-E2 | Cisco Nexus 9516 100-Gigabit cloud scale fabric module    | 4       | 5       |

**Table 11.** Cisco Nexus 9500 R-Series Fabric Modules

| Product ID      | Description                                         | Minimum | Maximum |
|-----------------|-----------------------------------------------------|---------|---------|
| N9K-C9504-FM-R  | Cisco Nexus 9504 100-Gigabit R-Series fabric module | 4       | 6       |
| N9K-C9508-FM-R  | Cisco Nexus 9508 100-Gigabit R-Series fabric module | 4       | 6       |
| N9K-C9508-FM-R2 | Cisco Nexus 9508 400-Gigabit R-Series fabric module | 4       | 6       |

**Table 12.** Cisco Nexus 9500 Supervisor Modules

| Supervisor | Description                                                             | Maximum |
|------------|-------------------------------------------------------------------------|---------|
| N9K-SUP-A  | 1.8-GHz supervisor module with 4 cores, 4 threads, and 16 GB of memory  | 2       |
| N9K-SUP-A+ | 1.8-GHz supervisor module with 4 cores, 8 threads, and 16 GB of memory  | 2       |
| N9K-SUP-B  | 2.2-GHz supervisor module with 6 cores, 12 threads, and 24 GB of memory | 2       |
| N9K-SUP-B+ | 1.9-GHz supervisor module with 6 cores, 12 threads, and 32 GB of memory | 2       |

**Note:** N9K-SUP-A and N9K-SUP-A+ are not supported on Cisco Nexus 9504 and 9508 switches with -R and -R2 Line Cards.

**Table 13.** Cisco Nexus 9500 System Controller

| Product ID | Description                                        | Quantity |
|------------|----------------------------------------------------|----------|
| N9K-SC-A   | Cisco Nexus 9500 Platform System Controller Module | 2        |

**Table 14.** Cisco Nexus 9500 Fans and Fan Trays

| Product ID     | Description                                                   | Quantity |
|----------------|---------------------------------------------------------------|----------|
| N9K-C9504-FAN  | Fan tray for 4-slot modular chassis                           | 3        |
| N9K-C9504-FAN2 | Fan tray that supports the Cisco N9K-C9504-FM-G fabric module | 3        |
| N9K-C9508-FAN  | Fan tray for 8-slot modular chassis                           | 3        |
| N9K-C9508-FAN2 | Fan tray that supports the Cisco N9K-C9508-FM-G fabric module | 3        |
| N9K-C9516-FAN  | Fan tray for 16-slot modular chassis                          | 3        |

**Table 15.** Cisco Nexus 9500 Fabric Module Blanks with Power Connector

| Product ID        | Description                                                               | Minimum | Maximum |
|-------------------|---------------------------------------------------------------------------|---------|---------|
| N9K-C9504-FAN-PWR | Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector | 1       | 2       |
| N9K-C9508-FAN-PWR | Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector | 1       | 2       |

**Table 16.** Cisco Nexus 9500 Power Supplies

| Product ID       | Description                                     | Quantity | Cisco Nexus Switches |
|------------------|-------------------------------------------------|----------|----------------------|
| N9K-PAC-3000W-B  | 3-KW AC power supply                            | Up to 4  | Cisco Nexus 9504     |
|                  |                                                 | Up to 8  | Cisco Nexus 9508     |
|                  |                                                 | Up to 10 | Cisco Nexus 9516     |
| N9K-PDC-3000W-B  | 3-KW DC power supply                            | Up to 4  | Cisco Nexus 9504     |
|                  |                                                 | Up to 8  | Cisco Nexus 9508     |
|                  |                                                 | Up to 10 | Cisco Nexus 9516     |
| N9K-PUV-3000W-B  | 3-KW Universal AC/DC power supply               | Up to 4  | Cisco Nexus 9504     |
|                  |                                                 | Up to 8  | Cisco Nexus 9508     |
|                  |                                                 | Up to 10 | Cisco Nexus 9516     |
| N9K-PUV2-3000W-B | 3.15-KW Dual Input Universal AC/DC Power Supply | Up to 4  | Cisco Nexus 9504     |
|                  |                                                 | Up to 8  | Cisco Nexus 9508     |
|                  |                                                 | Up to 10 | Cisco Nexus 9516     |

**Table 17.** Cisco Nexus 9400 Switches

| Product ID        | Description                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N9K-C9408         | 4-RU, 8-slot centralized modular chassis switch, which is configurable with up to 128 200-Gigabit QSFP56 (256 100 Gigabit by breakout) ports or 64 400-Gigabit ports. |
| N9K-C9400-SUP-A   | Cisco Nexus 9400 Supervisor Card                                                                                                                                      |
| N9K-C9400-SW-GX2A | Cisco Nexus 9400 25.6Tbps Switch Card                                                                                                                                 |
| N9K-X9400-8D      | Cisco Nexus 9400 8p 400G QSFP-DD LEM                                                                                                                                  |
| N9K-X9400-16W     | Cisco Nexus 9400 16p 200G QSFP56 LEM                                                                                                                                  |
| N9K-X9400-22L     | Cisco Nexus 9400 LEM with 22 10G/25G/50G ports.                                                                                                                       |

**Table 18.** Cisco Nexus 9200 and 9300 Switches

| Cisco Nexus Switch | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N9K-C92348GC-X     | <p>The Cisco Nexus 92348GC-X switch (N9K-C92348GC-X) is a 1-RU switch that supports 696 Gbps of bandwidth and over 250 mpps.</p> <p>The 1GBASE-T downlink ports on the 92348GC-X can be configured to work as 100 Mbps, 1-Gbps ports.</p> <p>The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the two-ports of QSFP28 can be configured as 40- and 100-Gbps ports.</p> <p>The Cisco Nexus 92348GC-X is ideal for Big Data customers that require a Gigabit Ethernet ToR switch with local switching.</p> |
| N9K-C93400LD-H1    | 1-RU fixed-port, L2/L3 switch with 48 50G SFP56 ports and 4 400G QSFP-DD uplink ports.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| N9K-C93108TC-FX3   | 1 RU fixed-port switch Forty-eight 100M/1G/10GBASE-T ports (ports 1-48), Six 40/100-Gigabit ports QSFP28 (ports 49-54), Two management ports (one 10/100/1000BASE-T port and one SFP port), One console port (RS-232), and one USB port.                                                                                                                                                                                                                                                                           |
| N9K-C9332D-H2R     | 1-RU fixed-port switch with 400-Gigabit QSFP-DD ports (32), 10-Gigabit SFP+ ports (2), Management ports (one 10/100/1000BASE-T port and one SFP port), console port (RS-232), and USB port.                                                                                                                                                                                                                                                                                                                        |
| N9K-C9348GC-FX3    | 1 RU fixed-port switch 48 10/100/1000M copper RJ-45 downlink ports, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.                                                                                                                                                                                                                                                                                                                                                                              |
| N9K-C9348GC-FX3PH  | 1-RU fixed-port switch 40 10M/100M/1G copper RJ-45 downlink ports that support PoE/PoE+/PoE++ and 8 10M/100M copper RJ-45 downlink ports that support PoE/PoE+/PoE++, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.                                                                                                                                                                                                                                                                            |
| N9K-C93180YC-FX3H  | 1-RU fixed-port switch with 24 100M/1/10/25-Gigabit Ethernet SFP28 ports (ports 1-24), 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54), One management port (one 10/100/1000BASE-T port), and One console port (RS-232)                                                                                                                                                                                                                                                                                       |
| N9K-C9316D-GX      | 1-RU switch with 16x400/100/40-Gbps ports.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Cisco Nexus Switch | Description                                                                                                                                                                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N9K-C9364C-GX      | 2-RU fixed-port switch with 64 100-Gigabit SFP28 ports.                                                                                                                                                                                                                                                   |
| N9K-C93600CD-GX    | 1-RU fixed-port switch with 28 10/40/100-Gigabit QSFP28 ports (ports 1-28), 8 10/40/100/400-Gigabit QSFP-DD ports (ports 29-36)                                                                                                                                                                           |
| N9K-C9364C         | 2-RU Top-of-Rack switch with 64 40-/100-Gigabit QSFP28 ports and 2 1-/10-Gigabit SFP+ ports. <ul style="list-style-type: none"> <li>• Ports 1 to 64 support 40/100-Gigabit speeds.</li> <li>• Ports 49-64 support MACsec encryption.</li> <li>• Ports 651-64and66 support 1/10 Gigabit speeds.</li> </ul> |
| N9K-C9364C-H1      | 2-RU fixed-port switch with 64 100G SFP28 ports.                                                                                                                                                                                                                                                          |
| N9K-C9332C         | 1-RU fixed switch with 32 40/100-Gigabit QSFP28 ports and 2 fixed 1/10-Gigabit SFP+ ports.                                                                                                                                                                                                                |
| N9K-C9332D-GX2B    | 1-Rack-unit (1-RU) spine switch with 32p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports.                                                                                                                                                                                                               |
| N9K-C9348D-GX2A    | 48p 40/100/400-Gigabit QSFP-DD ports and 2p 1/10G/10G SFP+ ports                                                                                                                                                                                                                                          |
| N9K-C9364D-GX2A    | 64p 400/100-Gigabit QSFP-DD ports and 2p 1/10 SFP+ ports                                                                                                                                                                                                                                                  |
| N9K-C93180YC-FX3   | 48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)<br>6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)                                                                                                                                                                                              |
| N9K-C93180YC-FX3S  | 48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)<br>6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)                                                                                                                                                                                              |
| N9K-C9336C-FX2-E   | 1-RU switch with 36 40-/100-Gb QSFP28 ports                                                                                                                                                                                                                                                               |
| N9K-C9336C-FX2     | 1-RU switch with 36 40-/100-Gb Ethernet QSFP28 ports                                                                                                                                                                                                                                                      |
| N9K-C93360YC-FX2   | 2-RU switch with 96 10-/25-Gigabit SFP28 ports and 12 40/100-Gigabit QSFP28 ports                                                                                                                                                                                                                         |
| N9K-C93240YC-FX2   | 1.2-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP28 fiber ports and 12 40-/100-Gigabit Ethernet QSFP28 ports.                                                                                                                                                                                          |
| N9K-C93216TC-FX2   | 2-RU switch with 96 100M/1G/10G RJ-45 ports, 12 40/100-Gigabit QSFP28 ports, 2 management ports (one RJ-45 and one SFP port), 1 console port, and 1 USB port.                                                                                                                                             |
| N9K-C93180YC-FX    | 1-RU Top-of-Rack switch with 10-/25-/32-Gigabit Ethernet/FC ports and 6 40-/100-Gigabit QSFP28 ports. You can configure the 48 ports as 1/10/25-Gigabit Ethernet ports or as FCoE ports or as 8-/16-/32-Gigabit Fibre Channel ports.                                                                      |
| N9K-C93180YC-FX-24 | 1 RU 24 1/10/25-Gigabit Ethernet SFP28 front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports. The SFP28 ports support 1-, 10-, and 25-Gigabit Ethernet connections and 8-, 16-, and 32-Gigabit Fibre Channel connections.                                                       |
| N9K-C93108TC-FX    | 1-RU Top-of-Rack switch with 48 100M/1/10GBASE-T (copper) ports and 6 40-/100-Gigabit QSFP28 ports                                                                                                                                                                                                        |

| Cisco Nexus Switch            | Description                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| N9K-C93108TC-FX-24            | 1 RU 24 1/10GBASE-T (copper) front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports. |
| N9K-C93108TC-FX3P             | 1-RU fixed-port switch with 48 100M/1/2.5/5/10GBASE-T ports and 6 40-/100-Gigabit QSFP28 ports                |
| N9K-C9348GC-FXP. <sup>1</sup> | Cisco Nexus 9300 with 48p 100M/1 G, 4p 10/25 G SFP+ and 2p 100 G QSFP                                         |

**Table 19.** Cisco Nexus 9200 and 9300 Fans and Fan Trays

| Product ID        | Description                                                  | Quantity | Cisco Nexus Switches                |
|-------------------|--------------------------------------------------------------|----------|-------------------------------------|
| NXA-SFAN-30CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9348GC-FX3                          |
| NXA-SFAN-30CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 3        | 9348GC-FX3                          |
| NXA-SFAN-30CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9348GC-FX3PH                        |
| NXA-SFAN-30CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 3        | 9348GC-FX3PH                        |
| NXA-SFAN-35CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 6        | 9332D-H2R                           |
|                   |                                                              | 5        | 93400LD-H1                          |
|                   |                                                              | 4        | 93108TC-FX3                         |
| NXA-SFAN-35CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 6        | 9332D-GX2B                          |
|                   |                                                              | 5        | 93400LD-H1                          |
|                   |                                                              | 4        | 93108TC-FX3                         |
| NXA-SFAN-35CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 6        | 9332D-GX2B                          |
| NXA-FAN-160CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9364C <sup>[2]</sup><br>93360YC-FX2 |
| NXA-FAN-160CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 3        | 9364C <sup>[2]</sup><br>93360YC-FX2 |

<sup>1</sup> For N9K-C9348GC-FXP the PSU SPROM is not readable when the PSU is not connected. The model displays as "UNKNOWN" and status of the module displays as "shutdown."

<sup>2</sup> For specific fan speeds see the Overview section of the Hardware Installation Guide.

| Product ID         | Description                                                   | Quantity | Cisco Nexus Switches                                                                                                                                                                |
|--------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NXA-FAN-160CFM2-PE | Fan module with port-side exhaust airflow (blue coloring)     | 4        | 9364C-GX                                                                                                                                                                            |
| NXA-FAN-160CFM2-PI | Fan module with port-side intake airflow (burgundy coloring)  | 4        | 9364C-GX                                                                                                                                                                            |
| NXA-FAN-30CFM-B    | Fan module with port-side intake airflow (burgundy coloring)  | 3        | 93108TC-FX <a href="#">[1]</a><br>93180YC-FX <a href="#">[1]</a><br>9348GC-FXP <a href="#">[1]</a>                                                                                  |
| NXA-FAN-30CFM-F    | Fan module with port-side exhaust airflow (blue coloring)     | 3        | 93108TC-FX <a href="#">[1]</a><br>93180YC-FX <a href="#">[1]</a><br>9348GC-FXP                                                                                                      |
| NXA-FAN-35CFM-PE   | Fan module with port-side exhaust airflow (blue coloring)     | 4        | 92300YC <a href="#">[1]</a><br>9332C <a href="#">[1]</a><br>93180YC-FX3S <sup>[3]</sup><br>93180YC-FX3<br>93108TC-FX3P<br>93180YC-FX3H<br><br>9336C-FX2-E<br>9316D-GX<br>93600CD-GX |
|                    |                                                               | 6        |                                                                                                                                                                                     |
| NXA-FAN-35CFM-PI   | Fan module with port-side intake airflow (burgundy coloring)  | 4        | 92300YC <a href="#">[1]</a><br>9332C <a href="#">[1]</a><br>93180YC-FX3S <a href="#">[2]</a><br>93180YC-FX3<br>93108TC-FX3P<br>93180YC-FX3H                                         |
|                    |                                                               | 6        | 9316D-GX<br>93600CD-GX                                                                                                                                                              |
|                    |                                                               | 6        | 9336C-FX2-E                                                                                                                                                                         |
|                    | Fan module with port-side exhaust airflow (blue coloring)     |          |                                                                                                                                                                                     |
| NXA-FAN-65CFM-PE   | Fan module with port-side exhaust airflow (blue coloring)     | 3        | 93240YC-FX2 <a href="#">[1]</a><br>9336C-FX2 <a href="#">[1]</a>                                                                                                                    |
| NXA-FAN-65CFM-PI   | Fan module with port-side exhaust airflow (burgundy coloring) | 3        | 93240YC-FX2<br>9336C-FX2 <a href="#">[1]</a>                                                                                                                                        |

<sup>3</sup> This switch runs with +1 redundancy mode so that if one fan fails, the switch can sustain operation. But if a second fan fails, this switch is not designed to sustain operation. Hence before waiting for the major threshold temperature to be hit, the switch will power down due to entering the fan policy trigger command.

**Table 20.** Cisco Nexus 9200 and 9300 Power Supplies

| Product ID       | Description                                                                | Quantity | Cisco Nexus Switches                                   |
|------------------|----------------------------------------------------------------------------|----------|--------------------------------------------------------|
| NXA-PDC-715W-PI  | 715-W DC power supply with port-side intake airflow (blue coloring)        | 2        | 93108TC-FX3P                                           |
| NXA-PDC-440W-PE  | 440-W DC power supply with port-side exhaust airflow (blue coloring)       | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PDC-440W-PI  | 440-W DC power supply with port-side intake airflow (burgundy coloring)    | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PHV-350W-PE  | 350-W AC power supply with port-side exhaust airflow (blue coloring)       | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PHV-350W-PI  | 350-W AC power supply with port-side intake airflow (burgundy coloring)    | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PAC-350W-PE2 | 350-W AC power supply with port-side exhaust airflow (blue coloring)       | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PAC-350W-PI2 | 350-W AC power supply with port-side intake airflow (burgundy coloring)    | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PAC-1900W-PE | 1900-W AC power supply with port-side exhaust airflow (blue coloring)      | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PAC-1900W-PI | 1900-W AC power supply with port-side intake airflow (burgundy coloring)   | 2        | 9348GC-FX3<br>9348GC-FX3PH                             |
| NXA-PHV-2KW-PI   | 2000-W HVDC power supply with port-side intake airflow (burgundy coloring) | 2        | 9332D-H2R<br>93400LD-H1                                |
| NXA-PAC-1500W-PE | 1500-W AC power supply with port-side exhaust airflow (blue coloring)      | 2        | 9332D-GX2B                                             |
| NXA-PAC-1500W-PI | 1500-W AC power supply with port-side intake airflow (burgundy coloring)   | 2        | 9332D-GX2B                                             |
| NXA-PAC-500W-PE  | 500-W AC power supply with port-side exhaust airflow (blue coloring)       | 2        | 93180YC-FX<br>93108TC-FX3                              |
| NXA-PAC-500W-PI  | 500-W AC power supply with port-side intake airflow (burgundy coloring)    | 2        | 93180YC-FX<br>93108TC-FX3                              |
| NXA-PAC-650W-PE  | 650-W AC power supply with port-side exhaust (blue coloring)               | 2        | 92300YC<br>93180YC-FX3S<br>93180YC-FX3<br>93180YC-FX3H |
| NXA-PAC-650W-PI  | 650-W AC power supply with port-side intake (burgundy coloring)            | 2        | 92300YC<br>93180YC-FX3S<br>93180YC-FX3<br>93180YC-FX3H |

| Product ID        | Description                                                                     | Quantity | Cisco Nexus Switches                                                                       |
|-------------------|---------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------|
| NXA-PAC-750W-PE   | 750-W AC power supply with port-side exhaust airflow (blue coloring) 1          | 2        | 9336C-FX2<br>9336C-FX2-E<br>9332C<br>93240YC-FX2                                           |
| NXA-PAC-750W-PI   | 750-W AC power supply with port-side intake airflow (burgundy coloring) 1       | 2        | 9336C-FX2<br>9336C-FX2-E<br>9332C<br>93240YC-FX2                                           |
| NXA-PAC-1100W-PE2 | 1100-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93240YC-FX2<br>9332C<br>9316D-GX<br>9336C-FX2<br>9336C-FX2-E<br>93600CD-GX                 |
| NXA-PAC-1100W-PI2 | 1100-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93240YC-FX2<br>9332C<br>9316D-GX<br>9336C-FX2<br>9336C-FX2-E<br>93600CD-GX                 |
| NXA-PAC-1100W-PI  | Cisco Nexus 9000 PoE 1100W AC PS, port-side intake                              | 2        | 93108TC-FX3P                                                                               |
| NXA-PAC-1100W-PE  | Cisco Nexus 9000 PoE 1100W AC PS, port-side exhaust                             | 2        | 93108TC-FX3P                                                                               |
| NXA-PAC-1900W-PI  | Cisco Nexus 9000 PoE 1900W AC PS, port-side intake                              | 2        | 93108TC-FX3P                                                                               |
| NXA-PAC-1200W-PE  | 1200-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93360YC-FX2<br>9364C                                                                       |
| NXA-PAC-1200W-PI  | 1200-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93360YC-FX2<br>9364C                                                                       |
| NXA-PAC-1400W-PE  | 1400-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93400LD-H1                                                                                 |
| NXA-PAC-1400W-PI  | 1400-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93400LD-H1                                                                                 |
| N9K-PUV-1200W     | 1200-W Universal AC/DC power supply with bidirectional airflow (white coloring) | 2        | 92300YC<br>93108TC-FX<br>93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93108TC-FX3 |
| NXA-PDC-930W-PE   | 930-W DC power supply with port-side exhaust airflow (blue coloring)            | 2        | 93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93180YC-FX3H<br>93108TC-FX3          |

| Product ID       | Description                                                              | Quantity | Cisco Nexus Switches                                                              |
|------------------|--------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|
| NXA-PDC-930W-PI  | 930-W DC power supply with port-side intake airflow (burgundy coloring)  | 2        | 93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93180YC-FX3H<br>93108TC-FX3 |
| NXA-PDC-1100W-PE | 1100-W DC power supply with port-side exhaust airflow (blue coloring)    | 2        | 93240YC-FX2<br>93600CD-GX<br>9316D-GX<br>9332C<br>9336C-FX2<br>9336C-FX2-E        |
| NXA-PDC-1100W-PI | 1100-W DC power supply with port-side intake airflow (burgundy coloring) | 2        | 93240YC-FX2<br>93600CD-GX<br>9316D-GX<br>9332C<br>9336C-FX2<br>9336C-FX2-E        |
| NXA-PHV-1100W-PE | 1100-W AC power supply with port-side exhaust airflow (blue coloring)    | 2        | 93240YC-FX2<br>9336C-FX2                                                          |
| NXA-PHV-1100W-PI | 1100-W AC power supply with port-side intake airflow (burgundy coloring) | 2        | 93240YC-FX2<br>9336C-FX2                                                          |
| NXA-PAC-2KW-PE   | 2000-W AC power supply with port-side exhaust airflow (blue coloring)    | 2        | 9364C-GX                                                                          |
| NXA-PAC-2KW-PI   | 2000-W AC power supply with port-side intake airflow (burgundy coloring) | 2        | 9364C-GX<br>9332D-H2R                                                             |
| NXA-PDC-2KW-PE   | 2000-W DC power supply with port-side exhaust airflow (blue coloring)    | 2        | 9364C-GX<br>93400LD-H1                                                            |
| NXA-PDC-2KW-PI   | 2000-W DC power supply with port-side intake airflow (burgundy coloring) | 2        | 9364C-GX<br>9332D-H2R<br>93400LD-H1                                               |
| N2200-PAC-400W   | 400-W AC power supply with port-side exhaust airflow (blue coloring)     | 2        | 92348GC-X                                                                         |
| N2200-PAC-400W-B | 400-W AC power supply with port-side intake airflow (burgundy coloring)  | 2        | 92348GC-X                                                                         |
| N2200-PDC-350W-B | 350-W DC power supply with port-side intake airflow                      | 2        | 92348GC-X                                                                         |
| N2200-PDC-400W   | 400-W DC power supply with port-side exhaust airflow (blue coloring)     | 2        | 92348GC-X                                                                         |

## Compatibility Information

Fabric Module and Line Card compatibility details are listed below:

**Table 21.** Cisco Nexus 9500 Cloud Scale Line Cards

| Product ID      | N9K-C9504-FM-G          | N9K-C9508-FM-G          | N9K-C9504-FM-E          | N9K-C9508-FM-E          | N9K-C9508-FM-E2         | N9K-C9516-FM-E2         |
|-----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| N9K-X9716D-GX   | 4                       | 4                       | No                      | No                      | No                      | No                      |
| N9K-X9736C-FX   | 5                       | 5                       | 5                       | 5                       | 5                       | 5                       |
| N9K-X97160YC-EX | 4                       | 4                       | 4                       | 4                       | 4                       | 4                       |
| N9K-X9788TC-FX  | 4                       | 4                       | 4                       | 4                       | 4                       | 4                       |
| N9K-X9732C-EX   | 4                       | 4                       | 4                       | 4                       | 4                       | 4                       |
| N9K-X9732C-FX   | 4<br>5 (n+1 redundancy) | 4<br>5 (n+1 redundancy) | 4<br>5 (n+1 redundancy) | 4<br>5 (n+1 redundancy) | 4<br>5 (n+1 redundancy) | 4<br>5 (n+1 redundancy) |

**Table 22.** Cisco Nexus 9500 R-Series Line Cards

| Product ID     | N9K-C9504-FM-R          | N9K-C9508-FM-R          |
|----------------|-------------------------|-------------------------|
| N9K-X9636C-RX  | 6                       | 6                       |
| N9K-X9636Q-R   | 4<br>6 (n+2 redundancy) | 4<br>6 (n+2 redundancy) |
| N9K-X9636C-R   | 5<br>6 (n+1 redundancy) | 5<br>6 (n+1 redundancy) |
| N9K-X96136YC-R | 6                       | 6                       |

**Table 23.** Cisco Nexus 9500 R2-Series Line Cards

| Product ID    | N9K-C9508-FM-R2 |
|---------------|-----------------|
| N9K-X9624D-R2 | 6               |

## Optics

For information about transceivers and cables supported on a switch, see the [Transceiver Module \(TMG\) Compatibility Matrix](#). For the transceiver specifications and installation information, see the [Install and Upgrade Guides](#).

## Cisco Nexus Dashboard Insights for Data Center

Cisco NX-OS Release 10.4(6)M supports the Cisco Nexus Dashboard Insights on Cisco Nexus 9300-FX, 9300-FX2, 9300-FX3, 9300-GX, 9300-GX2, 9400, and 9800 platform switches and 9500 platform switches with -EX/FX/GX Line Cards. See the [Cisco Nexus Insights documentation](#).

## Upgrade and Downgrade

To perform a software upgrade or downgrade, follow the instructions in the Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide, Release 10.4(x). For information about an In Service Software Upgrade (ISSU), see the [Cisco NX-OS ISSU Support Matrix](#).

## Related Content

| Document Title                                                                                                                                                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Cisco Nexus 9000 Series Switches</a>                                                                                                                                                                                                                | Cisco Nexus 9000 Series Switches documentation                                                                                                                                                                                                                                                                                                                                                                                    |
| <a href="#">Cisco NX-OS Software Strategy and Lifecycle Guide</a>                                                                                                                                                                                               | Cisco NX-OS Software Release and Image-naming Convention                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">Cisco Nexus 3000 and 9000 Series NXAPI REST SDK User Guide and API Reference</a>                                                                                                                                                                    | Cisco Nexus 3000 and 9000 Series NX-NX-API REST SDK User Guide and API Reference                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"><li><a href="#">Cisco NX-OS Licensing Guide</a></li><li><a href="#">Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator</a></li><li><a href="#">Cisco Nexus Smart Licensing Using Policy User Guide</a></li></ul> | Licensing Information<br><br><b>Note:</b> When you downgrade from Cisco NX-OS Release 10.4(6)M to an earlier release, the features that use the ACI+NX-OS Essentials, Advantage, and add-on licenses or the Hardware Streaming Telemetry license continue to work in honor mode in the downgraded version. In addition, the output of the show license usage command continues to include entries for these unsupported licenses. |
| <a href="#">Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide</a>                                                                                                                                                                              | Cisco Nexus 9000 Series Software Upgrade and Downgrade Guide, Release 10.4(x)                                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes</a>                                                                                                                                                                                         | Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes, Release 10.4(6)M                                                                                                                                                                                                                                                                                                                                                         |
| <a href="https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html">https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html</a>                                                                     | Cisco NX-OS Supported MIBs                                                                                                                                                                                                                                                                                                                                                                                                        |
| <a href="#">Cisco Nexus 9000 Series Switch FEX Support Matrix</a>                                                                                                                                                                                               | Supported FEX modules                                                                                                                                                                                                                                                                                                                                                                                                             |
| <a href="#">Cisco Nexus 9000 Series Hardware Installation Guides</a>                                                                                                                                                                                            | Cisco Nexus 9000 Series Hardware Installation Guides                                                                                                                                                                                                                                                                                                                                                                              |

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