Cisco Nexus 9000 Series NX-OS Release Notes, Release 9.3(15)

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Introduction

Cisco NX-OS Release 9.3(15) is a PSIRT-only release; therefore, this document does not have open and resolved bug caveats. Also, there are no EPLD related changes in Cisco NX-OS Release 9.3(15).

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.

Date	Description
March 26, 2025	Cisco NX-OS Release 9.3(15) became available.

New and Enhanced Software Features

There are no new or enhanced software and hardware features introduced in Cisco NX-OS Release 9.3(15).

Open Issues

There are no open issues in this release.

Resolved Issues

There are no resolved issues in this release.

Device Hardware

The following tables list the Cisco Nexus 9000 Series hardware that Cisco NX-OS Release 9.3(15) supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 9000 Series device.

Table 1. Cisco Nexus 9500 Switches

Product ID	Description
N9K-C9504	7.1-RU modular switch with slots for up to 4 line cards in addition to two supervisors, 2 system controllers, 3 to 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 to 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 to 6 fabric modules, 3 fan trays, and up to 10 power supplies.

Table 2. Cisco Nexus 9500 Cloud Scale Line Cards

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Product ID	Description	Maximum Quantity		
		Cisco Nexus 9504	Cisco Nexus 9508	Cisco Nexus 9516
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-EX	Cisco Nexus 9500 32-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-X9736C-EX	Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 line card	4	8	16
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

Table 3. 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
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

Table 4. Cisco Nexus 9500 Classic Line Cards

Product ID	Description	Maximum Quantity		
		Cisco Nexus 9504	Cisco Nexus 9508	Cisco Nexus 9516
N9K-X9408C-CFP2	Line card with 8 100 Gigabit CFP2 ports	4	8	16
N9K-X9432C-S	Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 line card	4	8	N/A

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Product ID	Description	Maximum Quantity		
		Cisco Nexus 9504	Cisco Nexus 9508	Cisco Nexus 9516
N9K-X9432PQ	Cisco Nexus 9500 32-port 40 Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9636PQ	Cisco Nexus 9500 36-port 40 Gigabit Ethernet QSFP+ line card	4	8	N/A
N9K-X9464PX	Cisco Nexus 9500 48 1/10-Gigabit SFP+ and 4-port 40-Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9464TX	Cisco Nexus 9500 48 port 1/10-Gigabit BASE-T Ethernet and 4-port 40-Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9464TX2	Cisco Nexus 9500 48 port 1/10-Gigabit BASE-T Ethernet and 4-port 40-Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9536PQ	Cisco Nexus 9500 36-port 40 Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9564PX	Cisco Nexus 9500 48 1/10-Gigabit SFP+ and 4 port 40-Gigabit Ethernet QSFP+ line card	4	8	16
N9K-X9564TX	Cisco Nexus 9500 48 port 1/10-Gigabit BASE-T Ethernet and 4 port 40-Gigabit Ethernet QSFP+ line card	4	8	16

Table 5. 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-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-C9516-FM-E	Cisco Nexus 9516 50-Gigabit cloud scale fabric module	4	5
N9K-C9516-FM-E2	Cisco Nexus 9516 100-Gigabit cloud scale fabric module	4	5

Table 6. 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

Table 7. Cisco Nexus 9500 Fabric Modules

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Product ID	Description	Minimum	Maximum
N9K-C9504-FM	Cisco Nexus 9504 40-Gigabit fabric module	3	6
N9K-C9508-FM	Cisco Nexus 9508 40-Gigabit fabric module	3	6
N9K-C9516-FM	Cisco Nexus 9516 40-Gigabit fabric module	3	6
N9K-C9504-FM-S	Cisco Nexus 9504 100-Gigabit fabric module	4	4
N9K-C9508-FM-S	Cisco Nexus 9508 100-Gigabit fabric module	4	4

Table 8. Cisco Nexus 9500 Fabric Module Blanks with Power Connector

Product ID	Description	Minimum	Maximum
N9K-C9508-FM-Z	Cisco Nexus 9508 Fabric blank with Fan Tray Power Connector module	N/A	2
N9K-C9516-FM-Z	Cisco Nexus 9516 Fabric blank with Fan Tray Power Connector module	N/A	2

Table 9. Cisco Nexus 9500 Supervisor Modules

Supervisor	Description	Quantity
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 line cards.

Table 10. Cisco Nexus 9500 System Controller

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

Table 11. Cisco Nexus 9500 Fans and Fan Trays

Product ID	Description	Quantity
N9K-C9504-FAN	Fan tray for 4-slot modular chassis	3
N9K-C9508-FAN	Fan tray for 8-slot modular chassis	3
N9K-C9516-FAN	Fan tray for 16-slot modular chassis	3

Table 12. Cisco Nexus 9500 Power Supplies

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

Table 13. Cisco Nexus 9200 and 9300 Fans and Fan Trays

Product ID	Description	Quantity	Cisco Nexus Switches
N9K-C9300-FAN2	Fan 2 module with port-side intake airflow (burgundy coloring)	3	93128TX
N9K-C9300-FAN2-B	Fan 2 module with port-side exhaust airflow (blue coloring)	3	93128TX
N9K-C9300-FAN3	Fan 3 module with port-side intake airflow (burgundy coloring)	3	92304QC 9272Q[a] 93120TX
N9K-C9300-FAN3-B	Fan 3 module with port-side exhaust airflow (blue coloring)	3	92304QC 9272Q[a] 93120TX
NXA-FAN-160CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	9364C[a] 93360YC-FX2
NXA-FAN-160CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	3	9364C[a] 93360YC-FX2
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	92160YC-X 9236C[a] 93108TC-EX 93108TC-FX[a] 93180LC-EX[a] 93180YC-EX 93180YC-FX[a] 9332PQ 9348GC-FXP[a]
NXA-FAN-30CFM-F	Fan module with port-side exhaust airflow (blue coloring)	3	92160YC-X 9236C[a]

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Product ID	Description	Quantity	Cisco Nexus Switches
			93108TC-EX 93108TC-FX[a] 93180LC-EX[a] 93180YC-EX 93180YC-FX[a] 9332PQ 9348GC-FXP
NXA-FAN-35CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	4	92300YC[a] 9332C[a] 93108TC-FX3P 93180YC-FX3S[b]
		6	9316D-GX 93600CD-GX
NXA-FAN-35CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	4	92300YC[a] 9332C[a] 93108TC-FX3P 93180YC-FX3S[b]
		6	9316D-GX 93600CD-GX
NXA-FAN-65CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	93240YC-FX2[a] 9336C-FX2[a]

[a] For specific fan speeds see the Overview section of the Hardware Installation Guide.

[b] 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 14. Cisco Nexus 9200 and 9300 Power Supplies

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PAC-500W-PE	500-W AC power supply with port-side exhaust airflow (blue coloring)	2	93108TC-EX 93180LC-EX 93180YC-EX 93180YC-FX
NXA-PAC-500W-PI	500-W AC power supply with port-side intake airflow (burgundy coloring)	2	93108TC-EX 93180LC-EX 93180YC-EX 93180YC-FX
N9K-PAC-650W	650-W AC power supply with port-side intake (burgundy coloring)	2	9332PQ
N9K-PAC-650W-B	650-W AC power supply with port-side exhaust (blue coloring)	2	9332PQ
NXA-PAC-650W-PE	650-W power supply with port-side exhaust (blue coloring)	2	92160YC-X 9236C 92300YC 93180YC-FX3S 92304QC 93108TC-EX

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Product ID	Description	Quantity	Cisco Nexus Switches
			93180YC-EX
NXA-PAC-650W-PI	650-W power supply with port-side intake (burgundy coloring)	2	92160YC-X 9236C 92300YC 93180YC-FX3S 92304QC 93108TC-EX 93180YC-EX
NXA-PAC-750W-PE	750-W AC power supply with port-side exhaust airflow (blue coloring) [1]	2	9336C-FX2 93240YC-FX2 9332C 9336C-FX2
NXA-PAC-750W-PI	750-W AC power supply with port-side exhaust airflow (burgundy coloring) [1]	2	9336C-FX2 93240YC-FX2 9332C 9336C-FX2
NXA-PAC-1100W-PE2	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 93600CD-GX
NXA-PAC-1100W-PI2	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 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
N9K-PAC-1200W	1200-W AC power supply with port-side intake airflow (burgundy coloring)	2	93120TX
N9K-PAC-1200W-B	1200-W AC power supply with port-side exhaust airflow (blue coloring)	2	93120TX
NXA-PAC-1200W-PE	1200-W AC power supply with port-side exhaust airflow (blue coloring)	2	9272Q 93360YC-FX2 9364C
NXA-PAC-1200W-PI	1200-W AC power supply with port-side intake airflow (burgundy coloring)	2	9272Q 93360YC-FX2 9364C
N9K-PUV-1200W	1200-W Universal AC/DC power supply with bidirectional airflow (white coloring)	2	92160YC-X 9236C 92300YC 92304QC 9272Q[1] 93108TC-EX 93108TC-FX

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Product ID	Description	Quantity	Cisco Nexus Switches
			93360YC-FX2 93180YC-FX3S 93120TX 93128TX 93180LC-EX 93180YC-EX 93180YC-FX 9364C
NXA-PDC-930W-PE	930-W DC power supply with port-side exhaust airflow (blue coloring)	2	9272Q 93108TC-EX 93180YC-EX 93360YC-FX2 93180YC-FX3S 93120TX 93180YC-FX 9364C 92160YC-X
NXA-PDC-930W-PI	930-W DC power supply with port-side intake airflow (burgundy coloring)	2	9272Q 93108TC-EX 93180YC-EX 93360YC-FX2 93180YC-FX3S 93120TX 93180YC-FX 9364C 92160YC-X
NXA-PDC-1100W-PE	1100-W DC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2
NXA-PDC-1100W-PI	1100-W DC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2
UCSC-PSU-930WDC	930-W DC power supply with port-side intake (green coloring)	2	92160YC-X 9236C 92304QC 9272Q 93108TC-EX 93120TX 93128TX 93180YC-EX 9332PQ
UCS-PSU-6332-DC	930-W DC power supply with port-side exhaust (gray coloring)	2	92160YC-X 9236C 92304QC 9272Q 93108TC-EX 93120TX 93128TX 93180YC-EX 9332PQ

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Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PHV-1100W-PE	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9336C-FX2
NXA-PHV-1100W-PI	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 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
NXA-PDC-2KW-PE	2000-W DC power supply with port-side exhaust airflow (blue coloring	2	9364C-GX
NXA-PDC-2KW-PI	2000-W DC power supply with port-side intake airflow (burgundy coloring)	2	9364C-GX
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

Table 15. Cisco Nexus 9200 and 9300 Switches

Product ID	Description
N9K-C92160YC-X	1-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP+ ports and 6 40-Gigabit QSFP+ ports (4 of these ports support 100-Gigabit QSFP28 optics)
N9K-C92300YC	1.5-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP28 ports and 18 fixed 40-/100-Gigabit QSFP28 ports
N9K-C92304QC	2-RU Top-of-Rack switch with 56 40-Gigabit Ethernet QSFP+ ports (16 of these ports support 4x10 breakout cables) and 8 100-Gigabit QSFP28 ports
N9K-C92348GC-X	The Cisco Nexus 92348GC-X switch (N9K-C92348GC-X) is a 1RU switch that supports 696 Gbps of bandwidth and over 250 mpps. The 1GBASE-T downlink ports on the 92348GC-X can be configured to work as 100-Mbps, 1-Gbps ports. The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the 2 ports of QSFP28 can be configured as 40- and 100-Gbps ports. The Cisco Nexus 92348GC-X is ideal for big data customers that require a Gigabit Ethernet ToR switch with local switching.
N9K-C9236C	1-RU Top-of-Rack switch with 36 40-/100-Gigabit QSFP28 ports (144 10-/25-Gigabit ports when using breakout cables)
N9K-C93108TC-EX	1-RU Top-of-Rack switch with 48 10GBASE-T (copper) ports and 6 40-/100-Gigabit QSFP28 ports

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Product ID	Description
N9K-C93108TC-EX-24	1-RU 24 1/10GBASE-T (copper) front panel ports and 6 40/100-Gigabit QSFP28 spine facing ports.
N9K-C93108TC-FX	1-RU Top-of-Rack switch with 48 100M/1/10GBASE-T (copper) ports and 6 40-/100-Gigabit QSFP28 ports
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-C93120TX	2-RU Top-of-Rack switch with 96 1/10GBASE-T (copper) ports and 6 40-Gigabit QSFP+ ports
N9K-C93128TX	3-RU Top-of-Rack switch with 96 1/10GBASE-T (copper) ports and an uplink module up to 8 40-Gigabit QSFP+ ports
N9K-C9316D-GX	1-RU switch with 16x400/100/40-Gbps ports
N9K-C93180LC-EX	1-RU Top-of-Rack switch with 24 40-/50-Gigabit QSFP+ downlink ports and 6 40/100-Gigabit uplink ports. You can configure 18 downlink ports as 100-Gigabit QSFP28 ports or as 10-Gigabit SFP+ ports (using breakout cables).
N9K-C93180YC-EX	1-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP28 fiber ports and 6 40-/100-Gigabit QSFP28 ports
N9K-C93180YC-EX-24	1-RU 24 1/10/25-Gigabit front panel ports and 6-port 40/100 Gigabit QSFP28 spine-facing ports
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-C93180YC-FX3	48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)
N9K-C93180YC-FX3S	6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)
N9K-C93216TC-FX2	48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)
N9K-C93240YC-FX2	6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)
N9K-C9332C	1-RU fixed switch with 32 40/100-Gigabit QSFP28 ports and 2 fixed 1/10-Gigabit SFP+ ports
N9K-C9332PQ	1-RU switch with 32 40-Gigabit Ethernet QSFP+ ports (26 ports support 4x10 breakout cables and 6 ports support QSFP-to-SFP adapters)
N9K-C93360YC-FX2	2-RU switch with 96 10-/25-Gigabit SFP28 ports and 12 40/100-Gigabit QSFP28 ports
N9K-C9336C-FX2	1-RU switch with 36 40-/100-Gb Ethernet QSFP28 ports
N9K-C9348GC-FXP	Nexus 9300 with 48p 100M/1 G, 4p 10/25 G SFP+ and 2p 100 G QSFP

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Product ID	Description
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 - Ports 1 to 64 support 40/100-Gigabit speeds - Ports 49 to 64 support MACsec encryption - Ports 65 and 66 support 1/10 Gigabit speeds
N9K-C9364C-GX	2-RU fixed-port switch with 64 100-Gigabit SFP28 ports
N9K-9372PX-E	1RU switch with 48 x 1/10-Gbps SFP+ and 6 x 40-Gbps fixed QSFP+ ports
N9K-9372TX-E	1RU switch with 48 x 100M/1/10GBASE-T and 6 x 40-Gbps fixed QSFP+ ports

Optics

To determine which transceivers and cables are supported by a switch, see the Transceiver Module (TMG) Compatibility Matrix. To see the transceiver specifications and installation information, see the Install and Upgrade Guides.

Cisco Network Insights

Cisco NX-OS Release 9.3(15) supports the Cisco Network Insights Advisor (NIA) and Cisco Network Insights for Resources (NIR) on Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches and 9500 platform switches with -EX/FX line cards. For more information, see the Cisco Network 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 9.3(x). For information about an In Service Software Upgrade (ISSU), see the Cisco NX-OS ISSU Support Matrix.

Exceptions

Cisco Nexus 9200, 9300-EX, and 9300-FX Platform Switches

The following features are not supported for the Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches:

- 64-bit ALPM routing mode
- Cisco Nexus 9272PQ and Cisco Nexus 92160YC platforms do not support the PXE boot of the Cisco NX-OS image from the loader.
- ACL filters to span sub interface traffic on the parent interface
- Egress port ACLs

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- Egress QoS policer (not supported for Cisco Nexus 9200 platform switches). The only policer action supported is drop. Remark action is not supported on the egress policer.
- FEX (not supported for Cisco Nexus 9200 platform switches)
- GRE v4 payload over v6 tunnels
- IP length-based matches
- IP-in-IP (not supported on the Cisco Nexus 92160 switch)
- Maximum Transmission Unit (MTU) checks for packets received with an MPLS header
- NetFlow (not supported on Cisco Nexus 9200 platform switches)
- Packet-based statistics for Traffic Storm Control (only byte-based statistics are supported)
- PVLANs (not supported on Cisco Nexus 9200 platform switches)
- PXE boot of the Cisco NX-OS image from the loader (not supported for Cisco Nexus 9272PQ and 92160YC switches)
- Q-in-VNI (not supported on Cisco Nexus 9200 platform switches)
- Q-in-Q for VXLAN (not supported on Cisco Nexus 9200 and 9300-EX platform switches)
- Q-in-VNI (not supported on Cisco Nexus 9200 platform switches)
- Resilient hashing for port channels
- Rx SPAN for multicast if the SPAN source and destination are on the same slice and no forwarding interface is on the slice
- SVI uplinks with Q-in-VNI (not supported for Cisco Nexus 9300-EX platform switches)
- Traffic Storm Control for copy-to-CPU packets
- Traffic Storm Control with unknown multicast traffic
- Tx SPAN for multicast, unknown multicast, and broadcast traffic
- VACL redirects for TAP aggregation

Cisco Nexus 9300-FX3 Platform Switches

The following features are not supported for the Cisco Nexus 9300-FX3 Platform switches:

- ACL with DSCP Wildcard Mask
- ARP Suppression with Reflective Relay
- Dynamic ACL - Named ACL support for applying blacklist/limited VLAN access for devices
- ECMP Hashing based on GRE Inner IP Header
- Enhanced ISSU
- Enhanced Policy-Based Routing (ePBR)
- ePBR Multi-Hop
- ePBR with Probes
- ePBR with User-Defined Probes
- IPv6 MIB support (IP-MIB)

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- Multicast Service Reflection (Ingress, PIM-border, Egress)
- Multiple LLDP neighbors per physical interface
- Secure VXLAN EVPN Multi-Site using CloudSec
- Selective Q-in-VNI + Advertise PIP on a VTEP
- Selective Q-in-VNI + VXLAN VLAN on the same port
- Standard ISSU
- Symmetric Hashing - ECMP (Inner DA)
- Unidirectional Ethernet (UDE)
- VXLAN EVPN with downstream VNI
- VXLAN over parent interface that also carries sub-interfaces

Cisco Nexus 9300-GX Platform Switches

The following features are not supported for the Cisco Nexus 9300-GX platform switches:

- Asymmetric PFC
- Autonegotiation on all ports
- FC-FEC for Cisco Nexus 9316D-GX and 93600CD-GX switches is not supported on the second lane of the 50x2 breakout port.
- FEX
- Multicast over GRE

Cisco Nexus N9K-X9408PC-CFP2 Line Card and 9300 Platform Switches

The following features are not supported for Cisco Nexus 9500 platform switches with the N9K-X9408PC-CFP2 line card and Cisco Nexus 9300 platform switches with generic expansion modules (N9K-M4PC-CFP2):

- 802.3x
- Breakout ports
- FEX (supported on some Cisco Nexus 9300 platform switches)
- Flows other than 40G
- Multichassis EtherChannel Trunk (MCT)
- NetFlow
- Port-channel (No LACP)
- PFC/LLFC
- Precision Time Protocol (PTP)
- PVLAN (supported on Cisco Nexus 9300 platform switches)
- Shaping support on 100g port is limited
- SPAN destination/ERSPAN destination IP
- Traffic Storm Control

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- vPC
- VXLAN access port

FEX Modules

The following features are not supported for FEX modules:

- Active-Active FEX and straight-through FEX are not supported on the Cisco Nexus 92348GC switch.
- For Cisco Nexus 9500 platform switches, 4x10-Gb breakout for FEX connectivity is not supported.

Cisco Nexus N9K-X96136YC-R Line Card

The following features are not supported for Cisco Nexus 9500 platform switches with the N9K-X96136YC-R line card:

- Breakout
- gPTP

  Note: One-step PTP is supported only on Cisco Nexus 9500-R series.

Cisco Nexus N9K-X9736C-FX Line Card

The following feature is not supported for Cisco Nexus 9500 platform switches with the N9K-X9736C-FX line card:

- Ports 29-36 do not support 1 Gbps speed.

Cisco Nexus 9500 Cloud Scale (EX/FX) Line Cards

The following features are not supported for Cisco Nexus 9500 platform switches with -EX/FX line cards:

- FEX
- IPv6 support for policy-based routing
- LPM dual-host mode
- SPAN port-channel destinations

Related Content

Cisco Nexus 9000 Series documentation: Cisco Nexus 9000 Series Switches

Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator: Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator

Cisco Nexus 9000 Series Software Upgrade and Downgrade Guide: Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide, Release 9.3(x)

Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes: Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes, Release 9.3(15)

Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference: Cisco Nexus NX-API Reference

Cisco NX-OS Supported MIBs: https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html

Supported FEX modules: Cisco Nexus 9000 Series Switch FEX Support Matrix

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