

Overview

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This switch chassis includes the following modules:

- Supervisor modules (one or two)—one of the following types in slots SUP 1 and SUP 2 (numbered from left to right on the chassis):
- System controllers (two) (N9K-SC-A) in slots SC 1 and SC 2 (numbered from left to right on the chassis)
- Line cards (up to 16) in slots LC 1 through LC 16 (numbered from top to bottom on the chassis) supported by the same type of fabric module

For compatibility information, please refer to the Line Card and Fabric Module Compatibility data sheets.



Note

Do not mix ACI-mode line cards with NX-OS mode line cards in the same switch.



Note

The N9K-X9716D-GX line card, is not compatible with this switch.

Fabric modules in slots FM 1 to FM 6 (numbered from left to right on the chassis)
See the following table for the required fabric module types and quantities that are required for maximum bandwidth.

Table 1: Supported Fabric Modules and Line Cards

Fabric Module	Fabric Modules Required for Maximum Bandwidth	Supported Line Cards
N9K-C9516-FM	4	N9K-X9736PQ

Fabric Module	Fabric Modules Required for Maximum Bandwidth	Supported Line Cards
N9K-C9516-FM-E2	4	N9K-X9732C-EX
	5	N9K-X9736C-FX
	5	N9K-X9736Q-FX

Table 2: FM-25 Feature Support Matrix for Cisco Nexus 9000 Series line cards and fabric modules

	Line cards				
	X9736PQ X9736Q-FX			X9736C-FX	
Fabric modules					
C9516-FM-E-E2	No	Yes	Yes	Yes	



Note

The fabric modules must be installed in specific slots as follows (installing fabric modules in other slots can cause a module mismatch condition):

- For three modules, they must be in slots FM 2, FM 4, and FM 6
- For four modules, they must be in slots FM2, FM 3, FM 4, and FM 6
- For five modules, they can be in slots FM 1, FM 2, FM 3, FM 4, and FM 6. Alternatively, they can be in Slots FM 2, FM 3, FM 4, FM 5, and FM 6.
- For five FM-E or FM-E2 modules, they must be in Slots FM 2, FM 3, FM 4, FM 5, and FM 6
- For six modules, they are in slots FM 1, FM 2, FM 3, FM 4, FM 5, and FM 6



Note

All of the fabric modules in a modular switch must be of the same type.



Note

Fabric slots FM 2, FM 4, or FM 6 must be filled with functioning fabric modules in order to provide power to the fan trays covering those modules.

If fabric slots FM 1, FM 3, or FM 5 are not filled with a fabric module, you must make sure that they have a blank module (N9K-C9516-FM-CV) installed to preserve the designed airflow.



Note

For more information about Line card and fabric module compatibility, see the Cisco Nexus 9500 Platform Line Cards and Fabric Modules Data Sheet.

- Fan trays (three) (N9K-C9516-FAN) in slots FAN 1 to FAN 3 (numbered from left to right on the chassis)
- Power supplies (up to five with the combined power mode, up to six with the n+1 power redundancy mode, or up to ten with the n+n power redundancy mode) in slots PS 1 to PS 10 (numbered from left to right on the chassis)
 - Cisco Nexus 9500 Series 3-kW AC power supply (N9K-PAC-3000W-B)
 - Cisco Nexus 9500 Series 3-kW Universal AC/DC power supply (N9K-PUV-3000W-B)
 - Cisco Nexus 9500 Series 3.15-kW Dual Input Universal AC/DC power supply (N9K-PUV2-3000W-B)
 - Cisco Nexus 9500 Series 3-kW (-48 V) DC power supply (N9K-PDC-3000W-B)



Note

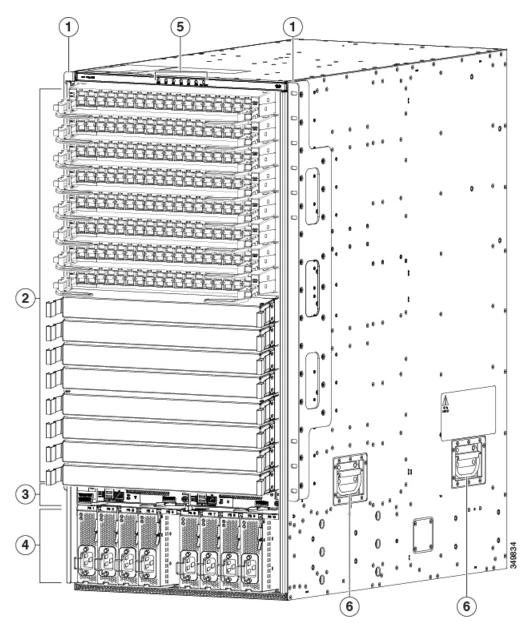
The switch can be powered by a mix of AC, DC, HVAC/HVDC power sources.



Note

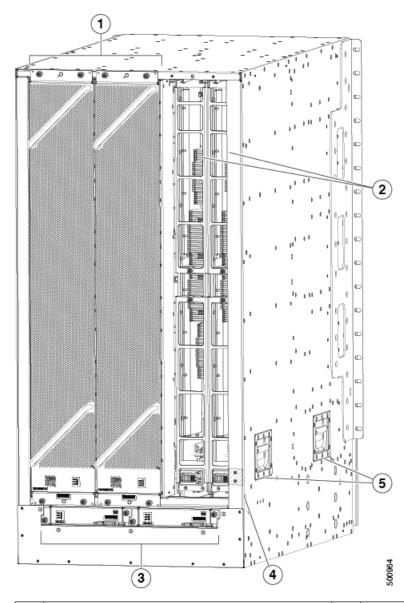
All chassis slots are numbered from left to right or from top to bottom.

The following figure shows the hardware features seen from the front of the chassis.



1	2 vertical mounting brackets used to mount the chassis onto a rack	4	3-kW AC, Universal AC/DC, or DC power supplies (AC power supplies shown)
2	I/O modules (up to 16)	5	Chassis LEDs
3	Supervisor modules (1 or 2)	6	Chassis handles (used only for positioning the chassis on the bottom support rails—do not use these handles for lifting the chassis)

The following figure shows the hardware features seen from the rear of the chassis (one fan tray has been removed to show the fabric modules behind the fan trays).



	1	Fan trays (3—right fan tray not shown in order to display the fabric modules located behind the fan trays)	4	Grounding pad
	2	Fabric modules (up to 6 with up to 2 behind each fan tray)	5	Chassis handles (used only for positioning the chassi on the bottom support rails—do not use these handle for lifting the chassis)
Ī	3	System controllers (2)		

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