



Overview

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The Cisco Nexus 9316D-GX switch (N9K-C9316D-GX) is a 1-RU, fixed-port spine switch designed for spine-leaf-ACI deployment in data centers. This switch has 16 x 400/100-Gbps QSFP-DD ports.

To determine which transceivers, adapters, and cables this switch supports, see the [Cisco Transceiver Modules Compatibility Information](#) document.

This switch includes the following user-replaceable components:

- Fan modules (six) with the following airflow choices:
 - Port-side exhaust airflow with blue coloring (NXA-FAN-35CFM-PE)
 - Port-side intake airflow with burgundy coloring (NXA-FAN-35CFM-PI)



Note *Table 1: Fan Speeds for This Switch*

	Port-Side Intake Fan Speed %	Port-Side Exhaust Fan Speed %
Typical/Minimum	60%	80%
Maximum	100%	100%

- Power supply modules (two—One for operations and one for redundancy [1+1]) with the following choices:
 - 1100-W AC power supply with port-side exhaust airflow (blue coloring) (NXA-PAC-1100W-PE2)
 - 1100-W AC power supply with port-side intake airflow (burgundy coloring) (NXA-PAC-1100W-PI2)
 - 1100-W HVAC/HVDC power supply with port-side exhaust airflow (blue coloring) (NXA-PHV-1100W-PE)

- 1100-W HVAC/HVDC power supply with port-side intake airflow (burgundy coloring) (NXA-PHV-1100W-PI)
- 1100-W DC power supply with port-side exhaust airflow (blue coloring) (NXA-PDC-1100W-PE)
- 1100-W DC power supply with port-side intake airflow (burgundy coloring) (NXA-PDC-1100W-PI)



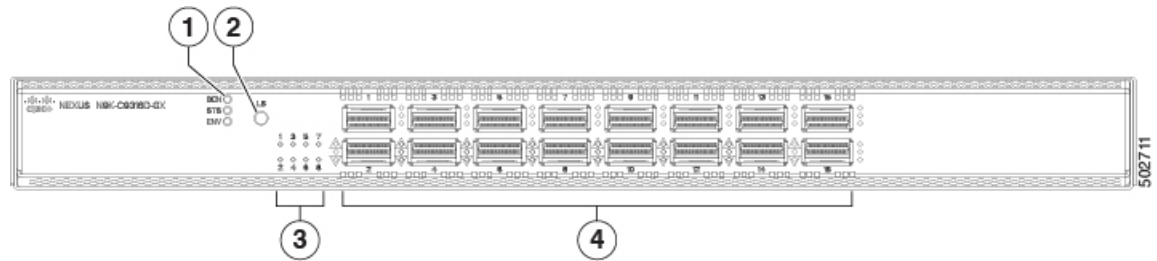
Note Both power supplies use the same type of power source. Do not mix AC and DC power sources.



Note All fan modules and power supplies must use the same airflow direction during operations.

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

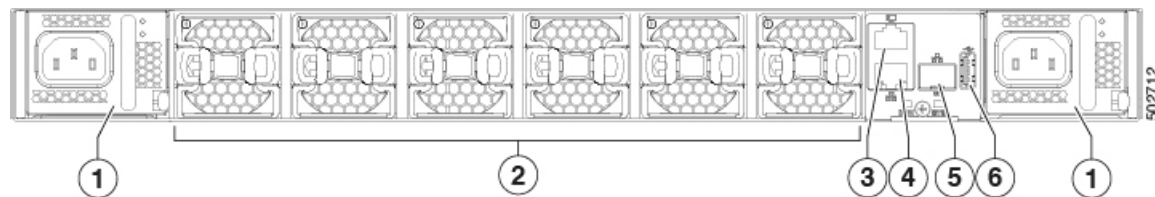
Figure 1: Port Side View of the Cisco Nexus 9316D-GX Switch



1	Chassis LEDs (Beacon [BCN], Status [STS], and Environment [ENV])	3	Lane selector LEDs
2	Lane selection button Note Lane Selection button is used for breakout port LED status. When lane selector button is pressed, lane selector LED will change color. The LED color is hardwired on the C9316D-GX hardware. Since the fabric port breakout is not supported on C9316D-GX, the lane selector LED does not reflect the lane number of breakout ports and it does not have any significance in this release.	4	100/400 QSFP-DD ports (16)

The following figure shows the hardware features seen from the power supply side of the chassis.

Figure 2: Power Supply Side View of the Cisco Nexus 9316D-GX Switch



1	Two power supplies (one for operations and one for redundancy) (AC power supplies shown). Power supply slot 1 is on the left and slot 2 is on the right.	4	Out-of-band management port (RJ-45 port)
2	Fans (6)	5	Out-of-band management port (SFP port)
3	Console port (RS232 port)	6	USB port that is used for saving or copying functions.



Note USB support is limited to USB 2.0 devices that use less than 2.5 W (less than 0.5 A inclusive of surge current). There is no support for devices, such as external hard drives, that instantaneously draw more than 0.5 A.

Depending on whether you plan to position the ports in a hot or cold aisle, you can order the fan and power supply modules with port-side intake (red colored) or port-side exhaust (blue colored) airflow. All the power supply and fan modules must have the same coloring.

The fan and power supply modules are field replaceable. You can replace one fan module or one power supply module during operations, so long as the other modules are operating. If you have only one power supply that operational, you can install the replacement power supply in the open slot before removing the original power supply.



Note All the fan and power supply modules must have the same direction of airflow. Otherwise, the switch can overheat and shut down.



Caution If the switch has port-side intake airflow (burgundy coloring for fan modules), you must orient the ports in the cold aisle. If the switch has port-side exhaust airflow (blue coloring for fan modules), you must orient the ports in the hot aisle. If you orient the air intake in a hot aisle, the switch can overheat and shut down.

