



## Overview

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## Overview

The Cisco Nexus 9332C switch (N9K-C9332C) is a 1-RU, fixed-port switch designed for spine-leaf-APIC deployment in data centers. This switch has 32 40/100-Gigabit QSFP28 ports and 2 SFP ports. Ports 25-32 offer hardware support for MACsec encryption.

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 (five) 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)



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**Note** *Table 1: Fan Speeds for This Switch*

	<b>Port-Side Intake Fan Speed %</b>	<b>Port-Side Exhaust Fan Speed %</b>
Typical/Minimum	50%	70%
Maximum	100%	100%



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**Note** Each fan module has two rotors. The switch can function normally if one rotor inside the any one fan module fails. In case of more than one rotor failure, the switch will issue a warning and power down in 2 minute.

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- Power supply modules (two—One for operations and one for redundancy [1+1]) with the following choices:
  - 750-W AC power supply with port-side exhaust airflow (blue coloring) (NXA-PAC-750W-PE)
  - 750-W AC power supply with port-side intake airflow (burgundy coloring) (NXA-PAC-750W-PI)
  - 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 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)
  - 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)




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**Note** The 750-W AC PSU is compatible only with software versions ACI-N9KDK9-14.2 or NXOS-9.3.3 and onwards.

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

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

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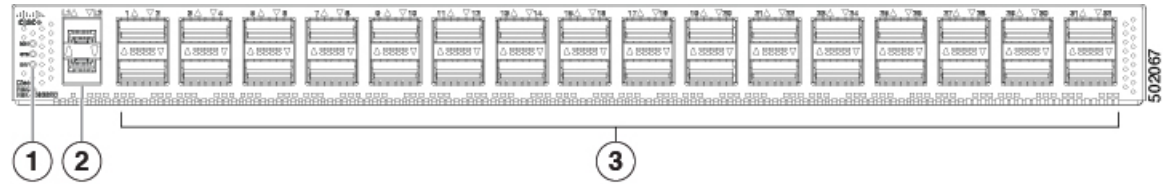

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**Note** In the event that only one power supply is operating in an active system and a second power supply is inserted, the system fan will slow down to **50% of Max speed** for 12 seconds. It can take up to 10 seconds for the second power supply to become active. Please do not remove the first power supply during this time-frame, in order to avoid system shutdown.

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

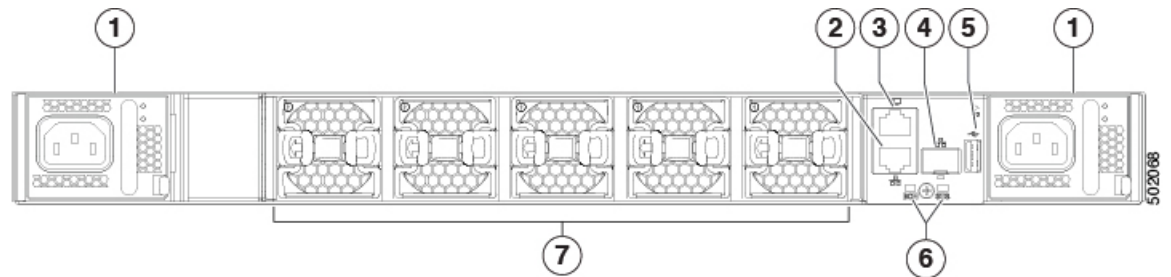
**Figure 1: Port Side View of the Cisco Nexus 9332C Switch**



1	Chassis LEDs (Beacon [BCN], Status [STS], and Environment [ENV])	3	40/100-Gigabit QSFP28 ports (32)
2	SFP ports (2)		

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

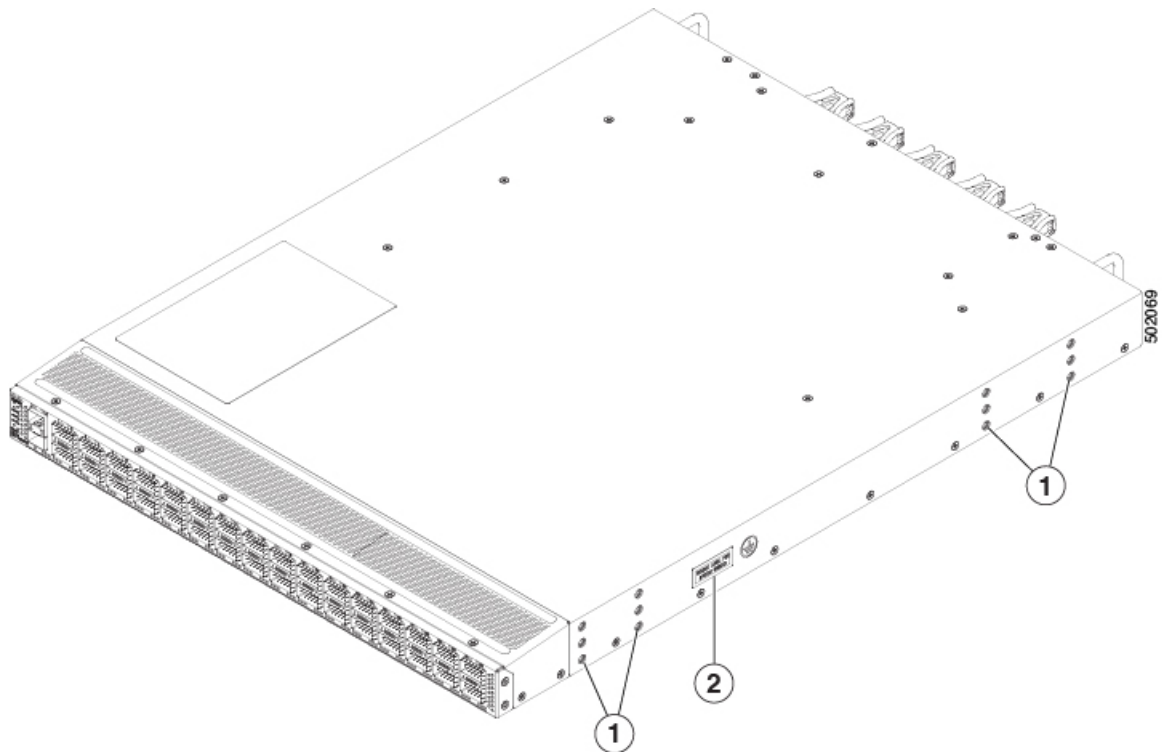
**Figure 2: Power Supply Side View of the Cisco Nexus 9332C Switch**



1	Power supply (2), one is for operations and one is for redundancy. Power supply slot 1 on the left and slot 2 on the right.	5	USB port
2	Management port (RJ-45)	6	Chassis LEDs (Beacon [BCN] and Status [STS])
3	Console port (RS232)	7	Fan modules (5) with fan slot 1 on the left and fan slot 5 on the right
4	Management port (SFP)		

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

Figure 3: Side View of the Cisco Nexus 9332C Switch



1	Screw holes (6) for attaching rack mounting brackets	2	Screw holes (2) for attaching grounding lug
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**Note** The limit for USB support is USB 2.0 devices that use less than 2.5 W (less than 0.5 A inclusive of surge current). Devices, such as external hard drives, that instantaneously draw more than 0.5 A are not supported.

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 (burgundy colored) or port-side exhaust (blue colored) airflow. The power supply and fan modules must have the same coloring.

The fan and power supply modules are field replaceable and 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 is installed, you can install the replacement power supply in the open slot before removing the original power supply.



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

