



## Overview

- [Overview, on page 1](#)

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The Cisco Nexus 92300YC switch (N9K-C92300YC) is a 1.2-RU, fixed-port switch designed for Top-of-Rack (ToR) deployment in data centers. This switch has 48 downlink SFP28 ports that you can configure to work as 10- or 25-Gigabit ports, and it has 18 fixed uplink QSFP28 ports that you can configure to work as 40- or 100-Gigabit ports. The 48 downlink ports are arranged in 3 rows of 16, in such a way that one row is upside down to optimize connections. To remove a transceiver, without a pull-tab, you need to insert a standard (flat) screwdriver to press the release tab to free it from the port. The chassis for this switch includes the following user-replaceable components:

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



**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%

- Power supply modules (two—one for operations and one for redundancy [1+1]) with the following choices (do not mix airflow directions):
  - 650-W AC power supply with port-side intake airflow (burgundy coloring) (NXA-PAC-650W-PI)
  - 650-W AC power supply with port-side exhaust airflow (blue coloring) (NXA-PAC-650W-PE)
  - 1200-W HVAC/HVDC power supply with dual-direction airflow (white coloring) (N9K-PUV-1200W)

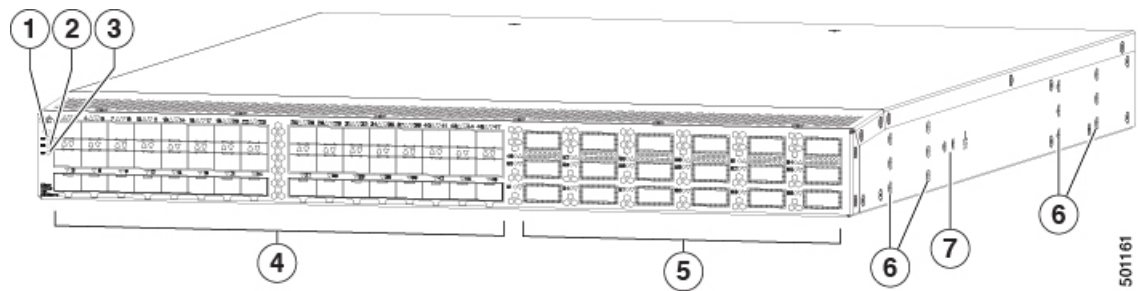


**Note** Both power supplies should be the same type. Do not mix AC or HVAC/HVDC power supplies.



**Note** All fan modules and power supplies must use the same airflow direction during operations. If you are using the 1200-W HVAC/HVDC power supply, the power supply automatically uses the same airflow direction as used by the other modules in the switch.

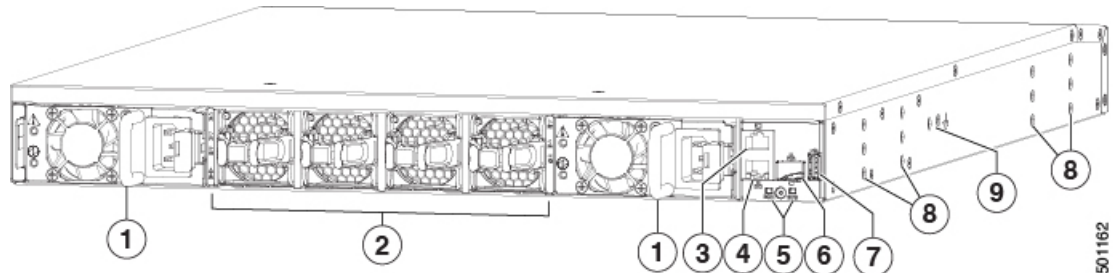
The following figure shows the hardware features seen from the port side of the chassis.



1	Beacon [BCN] LED	5	18 40/100-Gigabit QSFP28 optical ports for uplink connections to aggregation switches
2	Status [STS] LED	6	Screw holes (6) for attaching rack mounting brackets
3	Environment [ENV] LED	7	Grounding pad
4	48 10-/25-Gigabit SFP28 ports to other devices		

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

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



1	Two power supplies (one used for operations and one used for redundancy) (AC power supplies shown) with power supply slot 1 on the left and slot 2 on the right	6	Management port (SFP+ port)
2	Four fan modules with fan slot 1 on the left and fan slot 4 on the right	7	USB port
3	Console port (RS232 port)	8	Screw holes (6) for attaching rack mounting brackets
4	Management port (RJ-45 port)	9	Grounding pad
5	Chassis LEDs (Beacon [BCN] and Status [STS])		



**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). 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 or port-side exhaust airflow. To determine the airflow direction of the modules installed in your switch, see the following table.

Replaceable Modules	Port-Side Intake Airflow Coloring	Port-Side Exhaust Airflow Coloring
Fans	Burgundy	Blue
AC power supplies	Burgundy	Blue
HVAC/HVDC power supplies	White	

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 installed and operating. If you have only one power supply installed, you can install the replacement power supply in the open slot before removing the original power supply.



**Note** All of the fan and power supply modules must have the same direction of airflow. Otherwise, the switch can overheat and shut down. If you are installing a dual-direction power supply, that module will automatically use the same airflow direction as the other modules in the switch.



**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.

