



## Overview

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The Cisco Nexus 93108TC-EX switch (N9K-C93108TC-EX) is a 1-RU, fixed-port switch designed for spine-leaf-APIC deployment in data centers. This switch has 48 10GBASE-T ports for APIC connections and six fixed 100-Gigabit QSFP28 (optical) ports for connections to spine switches. The 10GBASE-T ports support 100-Megabit, 1-Gigabit, and 10-Gigabit speeds, and the QSFP28 ports support 40- and 100-Gigabit speeds. 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-30CFM-B)
  - Port-side exhaust airflow with blue coloring (NXA-FAN-30CFM-F)
- Power supply modules (two—one for operations and one for redundancy [1+1]) with the following choices:
  - 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)
  - 930-W DC power supply with port-side exhaust airflow (gray coloring) (UCS-PSU-6332-DC)
  - 930-W DC power supply with port-side intake airflow (green coloring) (UCSC-PSU-930WDC)



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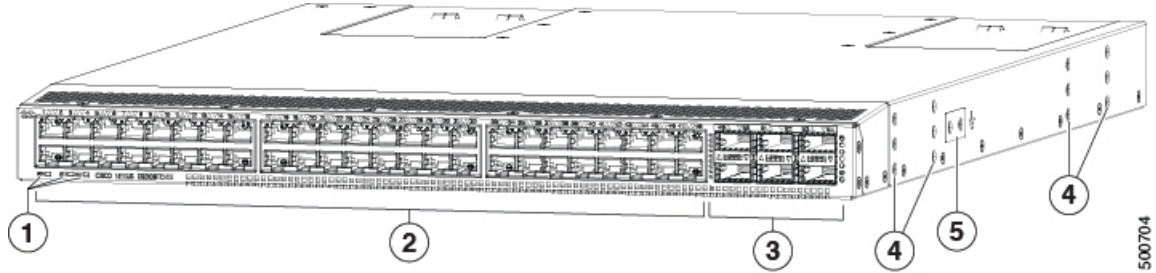
**Note** Both power supplies should be the same type. Do not mix AC, DC, or HVAC/HVDC power supplies.

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**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 supplies, those power supplies automatically use the same airflow direction as used by the other modules in the switch.

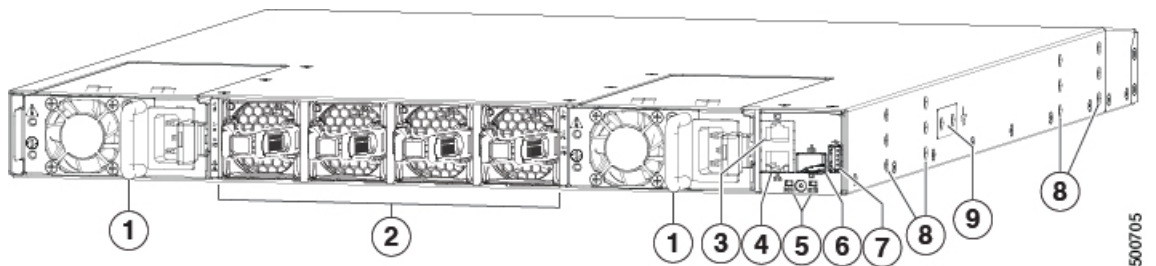
The following figure shows the hardware features seen from the port side of the chassis.



1	Chassis LEDs (Beacon [BCN], Status [STA], and Environment [ENV])	4	Screw holes (6) for attaching rack mounting brackets.
2	48 10GBASE-T downlink ports	5	Screw holes (2) for attaching grounding lug.
3	6 40- or 100-Gigabit QSFP28 optical uplink ports		

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	2 power supplies (AC power supplies shown) with power supply slot 1 on the left and slot 2 on the right	6	Out-of-band management port (SFP+ port)
2	4 fan modules with fan slot 1 on the left and fan slot 4 on the right	7	USB port used for saving or copying functions

3	Console port (RS232 port)	8	Screw holes (6) for attaching rack mounting brackets
4	Out-of-band management port (RJ-45 port)	9	Screw holes (2) for attaching grounding lug
5	Chassis LEDs (Beacon [BCN] and Status [STA])		

**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	
DC power supplies	Green	Gray

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 installed in the same chassis 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.

