



## Overview

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The Cisco Nexus 93108TC-FX3P switch (N9K-C93108TC-FX3P, N9K-C93108TC-FX3H) is a 1-rack unit (RU), fixed-port switch designed for spine-leaf-APIC deployment in data centers. PoE is supported on ports 1-48. This switch supports the following ports:

- 48 100M/1/2.5/5/10GBASE-T ports (ports 1-48).
- 6 40/100-Gigabit ports QSFP28 (ports 49-54)
- Two management ports (one 10/100/1000BASE-T port and one SFP port)
- One console port (RS-232)
- 1 USB port

This switch includes the following user-replaceable components:

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



**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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**Note** This switch runs with +1 redundancy mode, so that if one fan fails, the switch can sustain operation. But if a 2nd fan fails, this switch is not designed to sustain operation. Hence before waiting for major threshold temperature to be hit, the switch will power down due to **Powered-down due to fan policy trigger**.

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- Power supply modules (two—One for operations and one for redundancy [1+1]) with the following choices:
  - 715-W port-side intake DC power supply with blue coloring (NXA-PDC-715W-PI)
  - 1100-W port-side exhaust AC power supply with blue coloring (NXA-PAC-1100W-PE)
  - 1100-W port-side intake AC power supply with burgundy coloring (NXA-PAC-1100W-PI)
  - 1900-W port-side intake AC power supply with burgundy coloring (NXA-PAC-1900W-PI)



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**Note** The NXA-PDC-715W-PI power supply is only supported from Release 6.0.4 and later.

Additional limitations when using the NXA-PDC-715W-PI power supply include the following:

- SNMP query is not supported
  - Power statistics and power redundancy policy are not supported
  - **show environment power** command is not supported
  - APIC display is not supported
  - Syslog and faults are not supported and can be ignored
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**Note** All fan modules and power supplies must use the same airflow direction.

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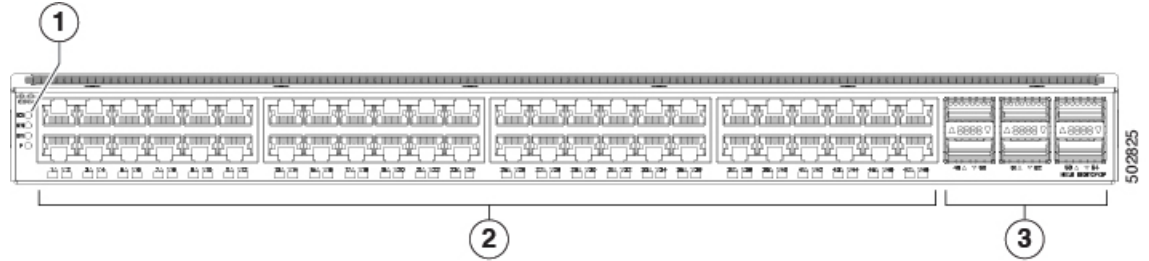
**Note** The details of the 1900-W power supply (NXA-PAC-1900W-PI) will not display in the CLI show commands, until a working power source is connected to the power supply.

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**Note** This switch may present access issues if installed between switches with greater chassis depth. Please consider this before installation.

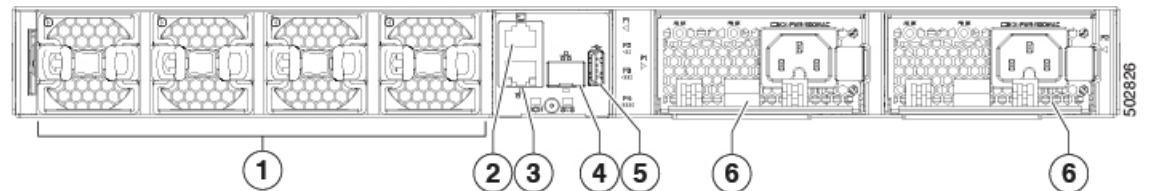
The following figure shows the switch features on the port side of the chassis.



1	BCN, STS, ENV, and P LEDs	3	6 40/100-Gigabit QSFP28 ports
2	48 100M/1/2.5/5/10GT ports		

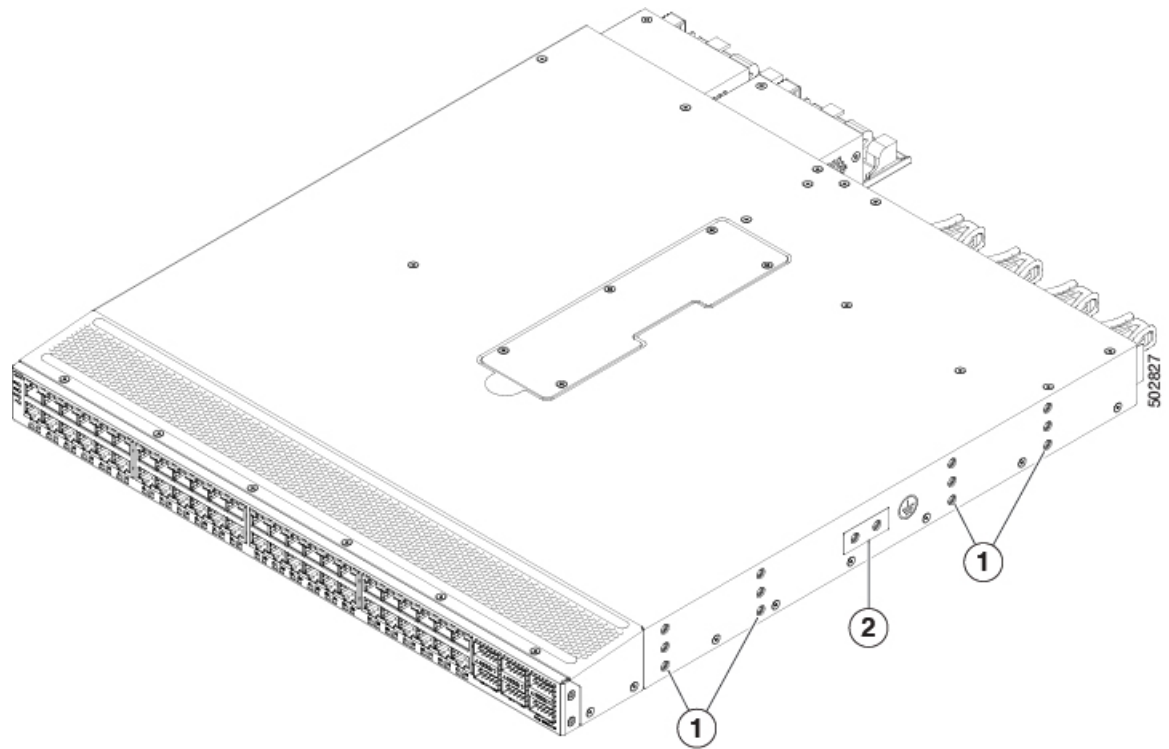
To determine which transceivers, adapters, and cables are support this switch, see the [Cisco Transceiver Modules Compatibility Information](#) document.

The following figure shows the switch features on the power supply side of the chassis.



1	Fan modules (4) with slots numbered from 1 (left) to 4 (right)	4	Management port (1—SFP optical port)
2	Console port (1)	5	USB port (1)
3	Management port (1—RJ-45 copper port)	6	Power supply modules (1 or 2) (AC power supplies shown) with slots numbered 1 (left) and 2 (right)

The following figure shows the side of the chassis.



1	Screw holes for mounting brackets	3	Grounding pad
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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. For port-side intake airflow, the fan and power supplies have burgundy coloring. For port-side exhaust airflow, the fan and power supplies have blue 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 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 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.