



Overview

- [Overview, on page 1](#)

Overview

The Cisco Nexus 9336C-FX2-E switch (N9K-C9336C-FX2-E) is a 1-rack mount unit (RU), fixed-port switch designed for spine-leaf-APIC deployment in data centers.

This switch has 36 40/100-Gigabit QSFP28 ports. Ports 31-36 are default fabric links (The last 2 ports 35-36 are reserved for fabric links). Downlink ports, 1-30 by default, support 4x10/4x25-Gigabit breakout. Up to 34 breakout ports are supported, ports 31-34 are convert-able to downlink ports. All ports support 10-Gigabit with a QSA adapter (CVR-QSF-SFP10G). Ports 7-32 support 1-Gigabit with QSA adapter.

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

This switch has the following ports:

- 36 40/100-Gigabit QSFP28 ports
- Two management ports (one 10/100/1000BASE-T port and one SFP port)
- One console port (RS-232)
- One USB port

This switch includes the following user-replaceable components:

- Fan modules (6) 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)
 - Port-side exhaust fan module with blue coloring (NXA-SFAN-35CFM-PE)
 - Port-side intake fan module with burgundy coloring (NXA-SFAN-35CFM-PI)



Note To enable or disable displaying the serial number of the NXA-SFAN-35CFM-PI or NXA-SFAN-35CFM-PE fan, enter the **[no] hardware fan-sprom** command.



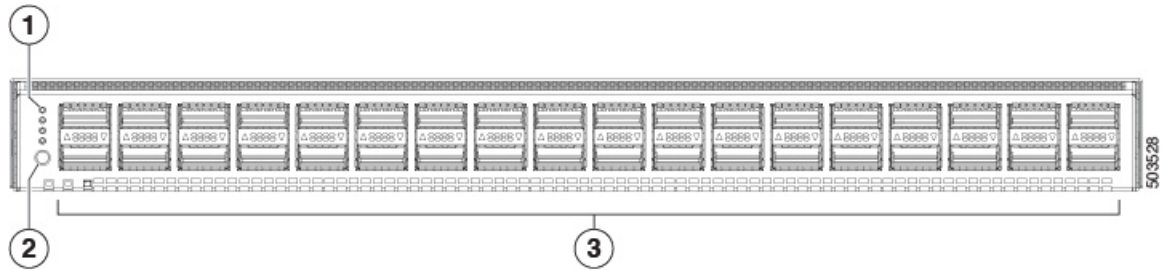
Note Each fan module has two rotors. The switch can function normally if one rotor inside the any one fan module fails. In case of more than one rotor failure, the switch will issue a warning and power down in 2 minute.

- Power supply modules (two—One for operations and one for redundancy [1+1]) with the following choices:
 - 750-W port-side exhaust AC power supply with blue coloring (NXA-PAC-750W-PE)
 - 750-W port-side intake AC power supply with burgundy coloring (NXA-PAC-750W-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)
 - 1100-W port-side exhaust DC power supply with blue coloring (NXA-PDC-1100W-PE2)
 - 1100-W port-side intake DC power supply with burgundy coloring (NXA-PDC-1100W-PI2)



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

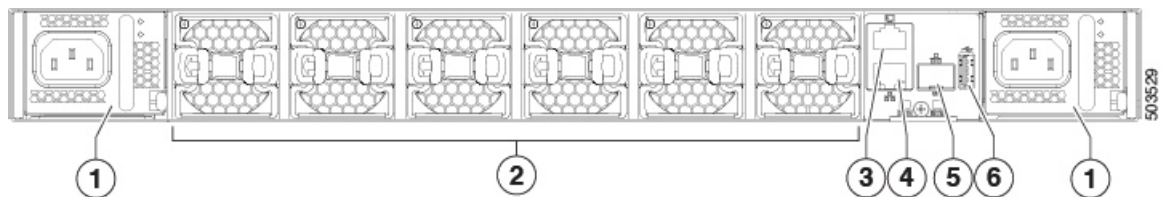
The following figure shows the switch features on the port side of the chassis.



1	LEDs	3	36 40/100-Gigabit QSFP28 ports
2	Lane select button		

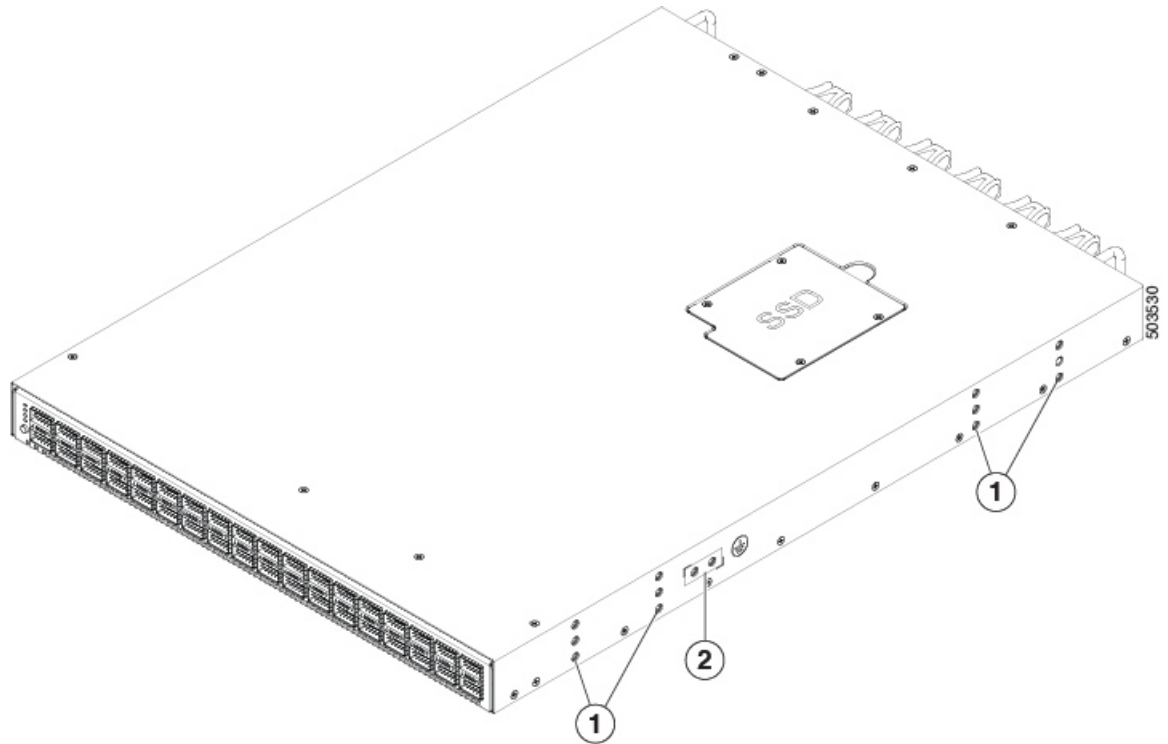
To determine which transceivers, adapters, and cables are support this switch, see the [Cisco Transceiver Modules Compatibility Information](#) document.

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



1	Power supply modules (1 or 2) (AC power supplies shown) with slots numbered 1 (left) and 2 (right)	4	Management port (RJ45)
2	Fan modules (6) with slots numbered from 1 (left) to 6 (right)	5	Management port (SFP)
3	Console port	6	USB port

The following figure shows the side of the chassis.



1	Screw holes for mounting brackets	2	Grounding pad
---	-----------------------------------	---	---------------

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.
