



Overview

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The Cisco Nexus 9364C switch (N9K-C9364C) is a 2-rack unit (RU), fixed-port switch designed for Top-of-Rack deployment in data centers. This switch has the following ports:

- 64 40-/100-Gigabit QSFP28 interface ports (see the following figure to see how these 64 ports are numbered)
 - Ports 1 to 48 support 40/100-Gigabit speeds and QSFP-to-SFP adapters for 10-Gigabit connections.
 - Ports 49 to 64 support 10 (only with QSA)/40/100-Gigabit speeds and are colored green to indicate hardware support for MACsec encryption.

Figure 1: Numbering of the 64 40/100-Gigabit Ports on the Cisco Nexus 9364C Switch

1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61
2	6	10	14	18	22	26	30	34	38	42	46	50	54	58	62
3	7	11	15	19	23	27	31	35	39	43	47	51	55	59	63
4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64



40-/100-Gigabit ports

40-/100-Gigabit ports supporting MACsec

- 2 1/10-Gigabit SFP+ interface ports
- 1 console port
- 2 management ports (one RJ-45 port and one SFP port)
- 1 USB port

This switch includes the following user-replaceable components:

- Fan modules (three) with the following airflow choices:
 - Port-side exhaust fan module with blue coloring (NXA-FAN-160CFM-PE)
 - Port-side intake fan module with burgundy coloring (NXA-FAN-160CFM-PI)



Note *Table 1: Fan Speeds for this Switch*

	Port-Side Intake Fan Speed %	Port-Side Exhaust Fan Speed %
Typical/Minimum	40%	70%
Maximum	100%	100%

- Power supply modules (two—one for operations and one for redundancy [1+1]) with the following choices:
 - 1200-W port-side exhaust AC power supply with blue coloring (NXA-PAC-1200W-PE)
 - 1200-W port-side intake AC power supply with burgundy coloring (NXA-PAC-1200W-PI)
 - 1200-W HVAC/HVDC dual-direction airflow power supply with white coloring (N9K-PUV-1200W)
 - 930-W port-side exhaust DC power supply with blue coloring (NXA-PDC-930W-PE)
 - 930-W port-side intake DC power supply with burgundy coloring (NXA-PDC-930W-PI)



Note 930-W DC power supply support 1+1 redundancy requires both of the following conditions:

- Ambient temperature of 104°F (40°C) or less and
- Use of 3.5 W QSFP+ transceivers or passive QSFP cables

With higher temperatures or other optics, the switch requires both power supplies for operations without power redundancy.

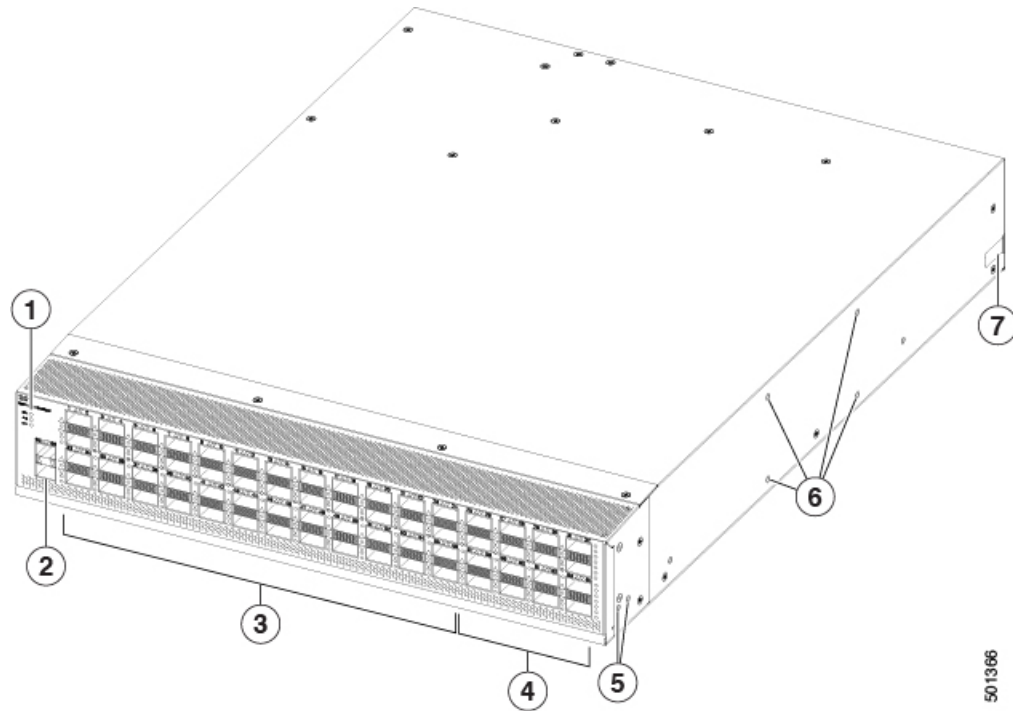


Note Both power supplies should be the same type. Do not mix AC, DC, or HVAC/HVDC power supplies.



Note All fan modules and power supplies must use the same airflow direction. If you are using the 1200-W HVAC/HVDC power supplies, those power supplies automatically use the same airflow direction as used by the fan modules.

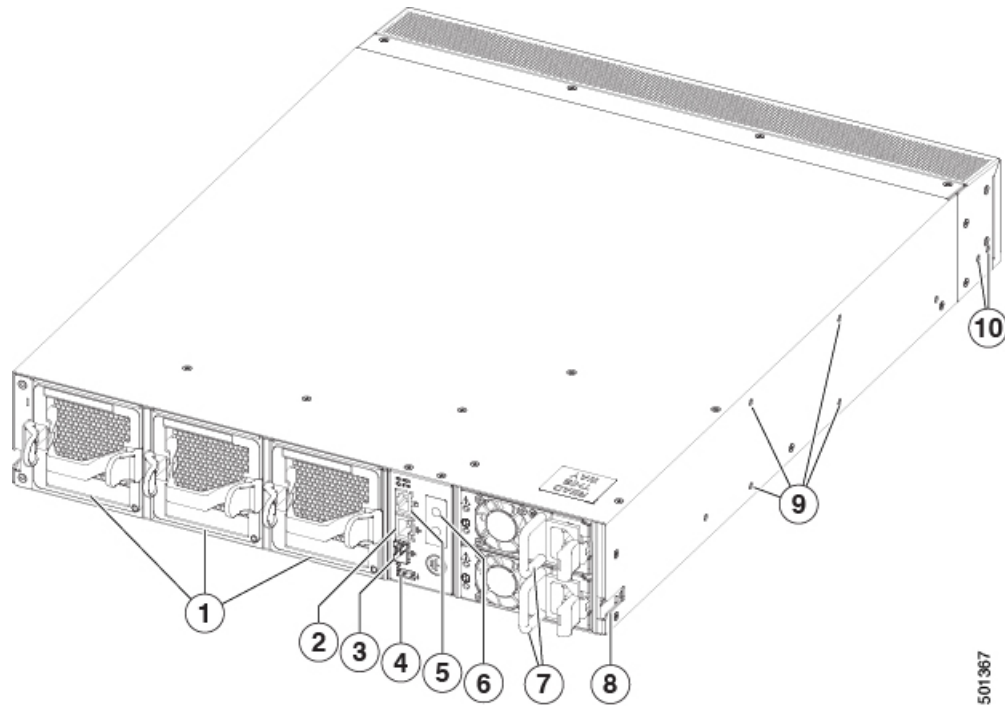
The following figure shows the switch features on the port side of the chassis.



1	Beacon (BCN), Status (STS), and Environment (ENV) LEDs	5	Screw holes for front mounting brackets (four-post rack installations)
2	1-/10-Gigabit SFP+ ports (2)	6	Screw holes for center-mount bracket (two-post rack installations)
3	40-/100-Gigabit QSFP28 ports (ports 1 to 48 in 4 rows of 12 ports)	7	Notch on both sides of the chassis for locking the power supply end of the chassis to the bottom support rails (four-post rack installations).
4	Green colored 40-/100-Gigabit QSFP28 ports supporting MACsec (when software support is available) (ports 49 to 64 in 4 rows of 4 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 switch features on the power supply side of the chassis.



1	Fan modules (3) with slots numbered from 1 (left) to 3 (right)	6	Grounding pad
2	Management port (1—RJ-45 copper port)	7	Power supply modules (1 or 2) (AC power supplies shown) with slots numbered 1 (top) and 2 (bottom)
3	Management port (1—SFP optical port)	8	Notch on both sides of the chassis for locking the power supply end of the chassis to the bottom support rails (four-post rack installations).
4	USB port (1)	9	Screw holes for center-mount bracket (two-post rack installations)
5	Console port (1)	10	Screw holes for front mounting brackets (four-post rack installations)

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

AC power supply modules have burgundy coloring. For port-side exhaust airflow, the fan and AC power supplies have blue coloring. You can also order the 1200-W HVAC/HVDC power supply which has dual-direction airflow with white coloring. Dual-direction airflow modules automatically use the airflow direction of the other modules installed in the switch.

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.
