



Introduction to N9348GC-FXP-ORV3

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Product Overview

The Cisco N9348GC-FXP-ORV3 switch (NC9348GC-FXP-ORV3) is a 1-RU fixed-port, L2/L3 switch, designed for deployment in data centers.

- 48 100/1000-Megabit 1GBASE-T downlink ports
- 4 1/10-/25-Gigabit SFP28 downlink ports
- 2 40-/100-Gigabit QSFP28 uplink ports
- Fan modules (three) with these airflow choices:
 - Port-side intake airflow with burgundy coloring (NXA-FAN-30CFM-B)
 - Port-side exhaust airflow with blue coloring (NXA-FAN-30CFM-F)



Note This switch will power down due to a fan-policy trigger if fewer than 2 fans are operational.

Table 1: Fan Speeds for this Switch

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



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 these choices (a mix of AC and DC power sources is supported but do not mix airflow directions):
 - 350-W AC power supply with port-side intake airflow (burgundy coloring) (NXA-PAC-350W-PI2)
 - 350-W AC power supply with port-side exhaust airflow (blue coloring) (NXA-PAC-350W-PE2)
 - 350-W PHV power supply with port-side intake airflow (burgundy coloring) (NXA-PHV-350W-PI)
 - 350-W PHV power supply with port-side exhaust airflow (blue coloring) (NXA-PHV-350W-PE)
 - 440-W DC power supply with port-side intake airflow (burgundy coloring) (NXA-PDC-440W-PI)
 - 440-W DC power supply with port-side exhaust airflow (blue coloring) (NXA-PDC-440W-PE)



Note The 350-W AC power supply does not have the standby voltage to be able to carry to a second power supply, to allow it to communicate and poll the device.

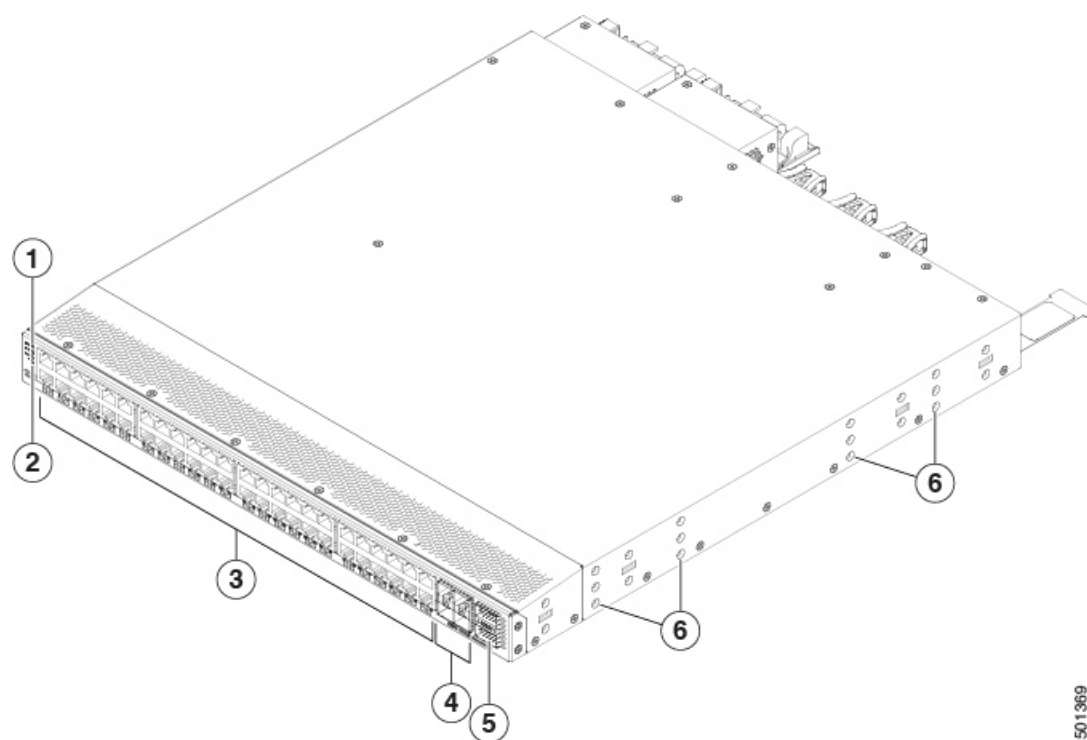
Deployment Scheme for SFP-10G-T-X Transceivers

There are 4 ports of SFP on the 9348GC-FXP switch in a 2x2 pattern. The SFP-10G-T-X module can be used in all four of these ports.

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

Front-Panel Components

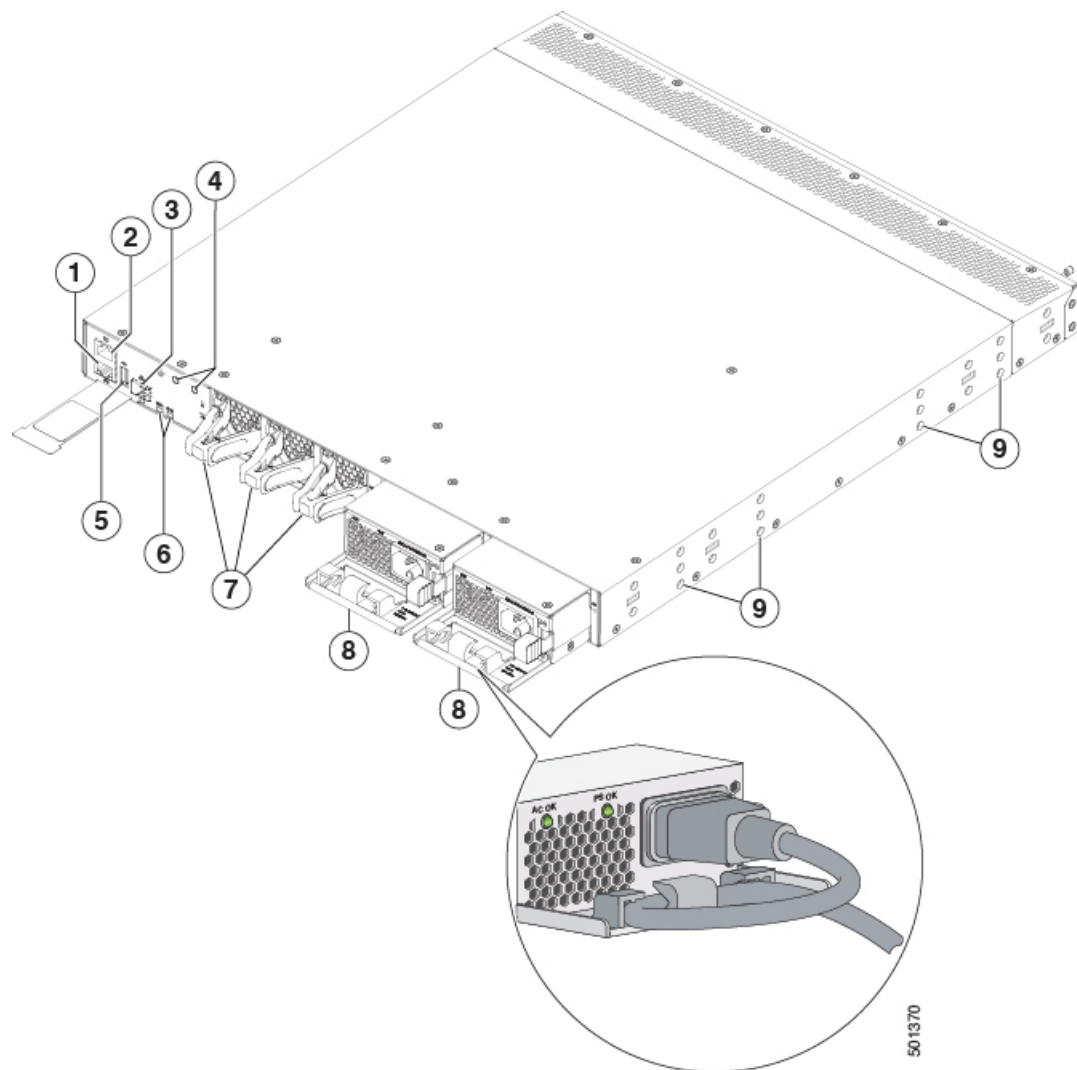
This figure shows the hardware features as seen from the port side of the chassis.



1	Chassis LEDs (Beacon [BCN], Status [STS], and Environment [ENV])	4	10-/25-Gigabit SFP28 downlink ports (4)
2	LED (P) designated for possible future use	5	40-/100-Gigabit QSFP28 uplink ports (2)
3	100-/1000-Megabit IGBASE-T downlink ports (48)	6	Screw holes (6) for attaching rack mounting brackets

Rear-Panel Components

This figure shows the hardware features as seen from the power supply side of the chassis.



1	Management port (RJ-45 port)	6	Chassis LEDs (Beacon [BCN] and Status [STS])
2	Console port (RS-232 port)	7	Fan module (3) with fan slot 1 on the left and fan slot 3 on the right
3	Management port (SFP port)	8	Power supply (2) one used for operations and one used for redundancy, with power supply slot 1 on the left and slot 2 on the right
4	Grounding pad	9	Screw holes (6) for attaching rack mounting brackets
5	USB port	-	



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 this table.

Replaceable Modules	Port-Side Intake Airflow Coloring	Port-Side Exhaust Airflow Coloring
Fans	Burgundy	Blue
AC power supplies	Burgundy	Blue

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.

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 automatically uses 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.

LEDs

This section describes the switch chassis, fan, and power supply module LEDs.

Switch Chassis LEDs

The BCN, STS, and ENV, LEDs are located on the left side of the front of the switch. The port LEDs appear as triangles pointing up or down to the nearest port.

LED	Color	Status
BCN (Beacon)	Flashing Blue	The operator has activated this LED to identify this switch in the chassis.
	Off	This switch is not being identified.

LED	Color	Status
STS (Status)	Green	The switch is operational.
	Amber	Temperature exceeds the minor alarm threshold.
	Red	Temperature exceeds the major alarm threshold.
	Flashing Amber	The switch is booting up.
	Off	The switch is not receiving power.
Env	Green	Fans and power supply modules are operational.
	Amber	At least one fan or power supply module is not operating.
	Off	No alarm
(port)	Green	Port admin state is enabled, SFP is present, and the interface is connected (that is, cabled, and the link is up).
	Amber	Port admin state is disabled, or the SFP is absent, or both.
	Off	Port admin state is enabled and SFP is present, but interface is not connected.

Fan LEDs

The fan LEDs are located below the air holes on the rear panel of the switch. This section provides information about the fan LEDs.

LED	Color	Status
Status	Green	The fan module is operating normally.
	Red	One or more fan modules are not operational.
	Off	The fan module is not receiving power.

Power Supply LEDs

The two power supply LEDs are located at the rear of the switch and on the left portion of the power supply module.

Combinations of states that are indicated by the Okay (PS_OK) and Okay (AC_OK) LEDs indicate the status for the module as described in the table.

PS_OK	AC_OK	Status Description
Green	Green	The power supply is on and sending power to the switch.
Flashing Green	Off	The power supply is connected to a power source, but not sending power to the switch. Or a power supply module may not be installed in the chassis.
Green	Flashing Amber	Power supply is operating but a warning condition has occurred—possibly one of these conditions: • High voltage • High power • Low voltage • Slow power supply fan
Green	Amber	Rotor fault Note This behavior occurs if the fan rotor is stopped during normal switch operation.
Off	Off	AC cord is removed while in redundant mode (while other power supply module is still running).

