



## Overview

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## Overview

The Cisco Nexus 9332D-GX2B switch (N9K-C9332D-GX2B) is a 1-rack unit (RU), fixed-port switch designed for deployment in data centers.

**This switch includes the following ports:**

- 400-Gigabit QSFP-DD ports (32)
- 10-Gigabit SFP+ ports (2)
- Management ports (one 10/100/1000BASE-T port and one SFP port)
- Console port (RS-232)
- USB port



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**Note**

- If MACsec is enabled on 8 ports, then you can not use high powered (>12W) optics.
  - If MACsec is enabled on 4 ports, then you can use 4 ports with high powered (>12W) optics.
  - If no MACsec is enabled, then you can use 8 ports with high powered (>12W) optics.
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**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-SFAN-35CFM-PE)
  - Port-side intake fan module with burgundy coloring (NXA-SFAN-35CFM-PI)
- Power supply modules (two—One for operations and one for redundancy [1+1]) with the following choices:
  - 1500-W port-side exhaust AC power supply with blue coloring (NXA-PAC-1500W-PE)
  - 1500-W port-side intake AC power supply with burgundy coloring (NXA-PAC-1500W-PI)

- 1100-W port-side intake DC power supply with burgundy coloring (NXA-PDC-1100W-PI)



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

When port-side exhaust power supplies and fans are installed, the ambient temperature should be 28C or lower and the maximum pluggable optics power supported in each of the 32 ports is as specified in the following table.

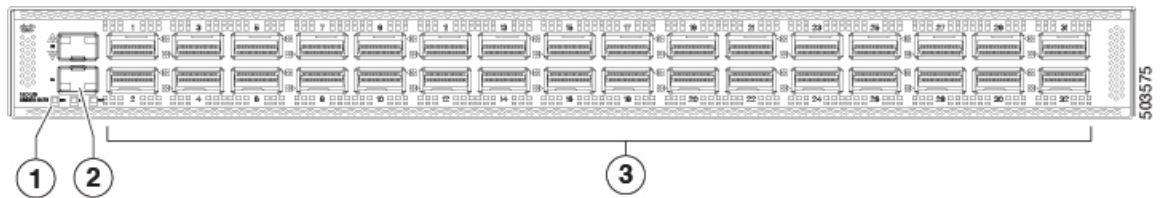
12	12	12	12	12	12	12	12	12	12	12	12	15	15	15	15
12	12	12	12	12	12	12	12	12	12	12	12	20	20	20	20

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When port-side intake DC power supplies are installed, the total power available for optics is 200W and the following limitations apply:

- When not using high power optics (15W to 20W), then MACsec can be used on 8 ports of the switch.
- When using 4x high power optics (15W to 20W), then MACsec can be used on 4 ports of the switch.
- When using 8x high power optics (15W to 20W), then MACsec cannot be used on the switch.

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

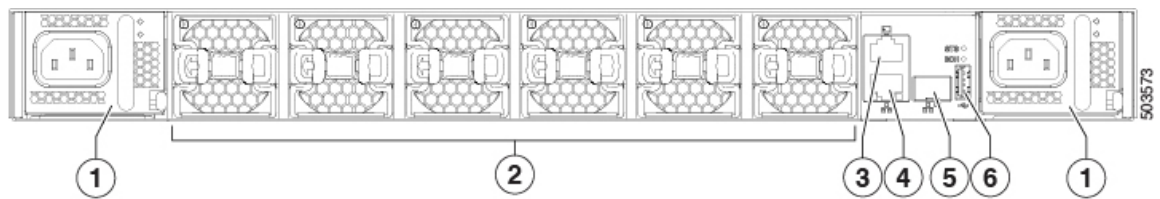


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1	LEDs	3	400-Gigabit QSFP-DD ports (32)
2	10-Gigabit SFP+ ports (2)		

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

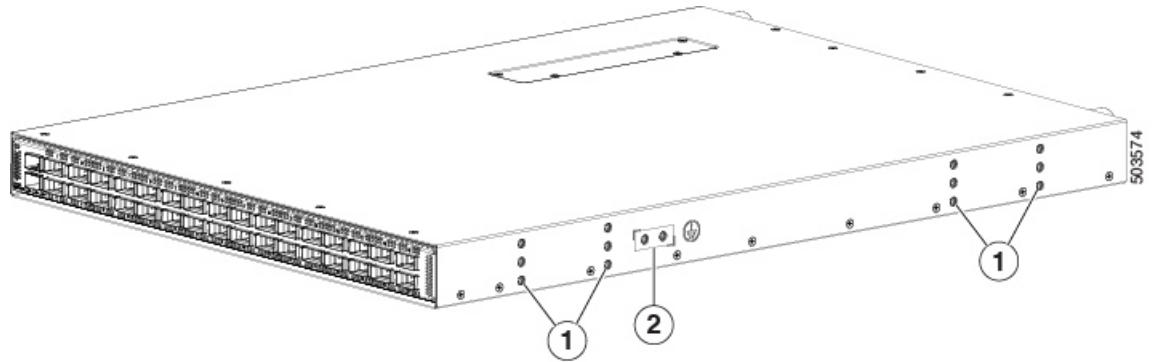
The following figure shows the switch features on the power supply side of the chassis.



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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
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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.

