

### Cisco Nexus 9808 NX-OS Mode Switch Hardware Installation

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CHAPTER

### **Cisco Nexus 9808 Switch Overview**

The Cisco 9808 switch includes:

- The Cisco 9808 is a 16-RU switch that supports distributed forwarding across multiple field units (FRUs).
- Cisco 9800 Series Switches, on page 1
- Line Card Overview, on page 2
- \* Supervisor Module Overview, on page 2
- Fabric Module Overview, on page 3
- Temperature and Physical Specifications, on page 3
- Weight and Power Consumption, on page 3
- Airflow Direction, on page 3
- Maximum Power Available to the Switch, on page 3
- Supported Optics, on page 5

### Cisco 9800 Series Switches

The following table describes the Cisco 9808 switch components, and the supported quantity.

Table 1: Cisco 9808 Switch Components

Component	Quantity
Line cards	8
Supervisor Modules	2
Fabric Modules	8
Fan trays	4
Power trays	3
Power supplies	HVAC/HVDC—9 (3 per tray)
	DC60—12 (4 per tray)



**Transceivers** 

input, and output

### **Line Card Overview**

Cisco Nexus 9800 switches support the following line cards:

Table 2: Supported Line Cards and Transceivers

N9K-X9836DM-A	QSFP-DD / QSFP28
N9K-X98900CD-A	QSFP-DD / QSFP28

When unlocking the ejector button and then relocking it without removing the line card, the line card power down. The line card will not power up and will not show poweroff module in command line into Preforming OIR is required to power up the line card.

# **Supervisor Module Overview**

**Line Card PIDs** 

Cisco Nexus 9800 Supervisor Modules (N9K-C9800-SUP-A) manage all control plane functions on the Ci Nexus 9800 Series Switches.

Figure 1: Supervisor Module

port

1	Console RS-232 Serial Port RJ45	5	SyncE BITS/DTI/J.211
2	USB Port Type-A (2-ports). Port A gets detected ahead of Port B.	6	G.703 Time-of-Day (TOI
	Top: Port B		
	Bottom: Port A		
3	Control Plane Expansion SFP/SFP+	7	1.0/2.3 50 ohm connector



1.0/2.3 50 ohm con

input, and output

Top: Management Ethernet (10/100/1000-Mbps) RJ-45 (Copper) port LAN.

Bottom: IEEE 1588 Precision Time

Protocol (PTP)

### **Fabric Module Overview**

Cisco Nexus 9808 switches support the following fabric modules:

• N9K-C9808-FM-A-Cisco Nexus 9808 Fabric Module

### **Temperature and Physical Specifications**

For temperature and physical specifications, refer to the Physical characteristics table in the 9800 Series Switches Data Sheet.

### **Weight and Power Consumption**

For weight and power consumption, refer to the Physical characteristics table in the Switches Data Sheet.

### **Airflow Direction**

To ensure proper airflow for the switch in your facility, position the switch with its air intake on a and the air exhaust on a hot aisle.

### **Maximum Power Available to the Switch**

The maximum power available for operations depends on the input power from your power sour and output capabilities of your power supplies, and the power redundancy mode that you use.

The following table lists the amount of power available for Cisco 9800 series switches from all a power trays.



Table 3: Maximum Power Available for a Switch with HVAC/HVDC Power Supplies

Total Power Supply	Combined Mode in Watts (No redundancy)	N+1 Redundancy Mode in Watts (with Single Supply Loss)
1	6,300	_
2	12,600	6,300
3	18,900	12,600
4	25,200	18,900
5	31,500	25,200
6	37,800	31,500
7	44,100	37,800
8	50,400	44,100
9	56,700	50,400

Table 4: Maximum Power Available for a Switch with DC60 Power Supplies

Total Power Supply	Combined Mode in Watts (No redundancy)	N+1 Redundancy Mode in Watts (with Single Supply Loss)	N+N Redundancy in Watts (with Feed
1	4,400	_	2,200
2	8,800	4,400	4,400
3	13,200	8,800	6,600
4	17,600	13,200	8,800
5	22,000	17,600	11,000
6	26,400	22,000	13,200
7	30,800	26,400	15,400
8	35,200	30,800	17,600
9	39,600	35,200	19,800
10	44,000	39,600	22,000
11	48,400	44,000	24,200
12	52,800	48,400	26,400



Table 5: Maximum Power Available for a Switch with DC100 Power Supplies

Total Power Supply	Combined Mode in Watts (No redundancy)	N+1 Redundancy Mode in Watts (with Single Supply Loss)	N+N Redunda in Watts (with I
1	4,800	_	2,400
2	9,600	4,800	4,800
3	14,400	9,600	7,200
4	19,200	14,400	9,600
5	24,000	19,200	12,000
6	28,800	24,000	14,400
7	33,600	28,800	16,800
8	38,400	33,600	19,200
9	43,200	38,400	21,600
10	48,000	43,200	24,000
11	52,800	48,000	26,400
12	57,600	52,800	28,800

# **Supported Optics**

To determine which transceivers and cables are supported by this switch, refer to the Tran Group (TMG) Compatibility Matrix Tool:

#### https://tmgmatrix.cisco.com/home

• For QSFP-DD data sheets, refer to the Sheet.	Cisco 400G QSFP-DD Cable and Trans
• For QSFP28 data sheets, refer to the	Cisco 100GBASE QSFP-100G Modules D
• For QSFP+ data sheets, refer to the	Cisco 40GBASE QSFP Modules Data
For 10G using QSA_refer to the	Cisco 10GBASE SEP+ Modules Data Sheet





# **Prepare for Installation**

Note

The images in this chapter are only for representational purposes, unless specified otherw actual appearance and size may vary.

#### Warning Statement 1071 Warning Definition

#### IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. E on any equipment, be aware of the hazards involved with electrical circuitry, and be familia practices for preventing accidents. Use the statement number provided at the end of each its translation in the translated safety warnings that accompanied this device.

#### SAVE THESE INSTRUCTIONS

- · Safety Guidelines, on page 7
- Compliance and Safety Information, on page 8
- Laser Safety, on page 9
- Energy Hazard, on page 9
- Preventing Electrostatic Discharge Damage, on page 9
- · Cautions and Regulatory Compliance Statements for NEBS, on page 10
- Installation Guidelines, on page 10
- Procure Tools and Equipment, on page 11
- Prepare Your Location , on page 12
- Prepare Yourself , on page 14
- · Prepare Rack for Chassis Installation, on page 15
- Clearance Requirements, on page 15

## Safety Guidelines

Before you perform any procedure in this document, review the safety guidelines in this section injuring yourself or damaging the equipment. The following guidelines are for your safety and to equipment. Because the guidelines do not include all hazards, be constantly alert.



- Keep the work area clear, smoke and dust-free during and after installation. Do not allow dirt o
  to enter into any laser-based components.
- Do not wear loose clothing, jewelry, or other items that could get caught in the switch or other associat components.
- Cisco equipment operates safely when used in accordance with its specifications and productinstructions.
- Be sure to power down a fixed configuration PDU or modular configuration power shelf before
  it from the chassis.
- If potentially hazardous conditions exist, do not work alone.
- Take care when connecting multiple units to the supply circuit so that wiring is not overloaded.
- This equipment must be grounded. Never defeat the ground conductor or operate the equipment absence of a suitably installed ground conductor. Contact the appropriate electrical inspection or an electrician if you are uncertain about whether suitable grounding is available.
- When installing or replacing the unit, the ground connection must always be made first and dis last.
- To prevent personal injury or damage to the chassis, never attempt to lift or tilt the chassis using the
  handles on modules (such as power supplies, fans, or cards); these types of handles are not designed
  support the weight of the unit.
- Hazardous voltage or energy is present on the backplane when the system is operating. Use caution v servicing.
- The rack stabilizing mechanism must be in place, or the rack must be bolted to the floor before you slid out the unit for servicing. Failure to stabilize the rack may cause the rack to tip over.

### **Compliance and Safety Information**

The Cisco Nexus 9800 Series Switches are designed to meet the regulatory compliance and safety requirements. For detailed safety information, see Regulatory Compliance and Safety Information

#### Warning Statement 1005 Circuit Breaker

This product relies on the building's installation for short-circuit (overcurrent) protection.

 Ensure that the protective devices are rated not greater than 30A max (North America); 32A max 32A max (UK) (AC/HVAC/HVDC) (AHF-2DC-6300W), 100A max (LVDC) (DHF-2D



### **Laser Safety**

**Warning** Invisible laser radiation may be emitted from disconnected fibers or connectors. Do not state view directly with optical instruments.

**Warning** Invisible laser radiation is present. Do not expose to users of telescopic optics. This applie laser products.

Pluggable optical modules comply with IEC 60825-1 Ed. 3 and 21 CFR 1040.10 and 1040 exception for conformance with IEC 60825-1 Ed. 3 as described in Laser Notice No. 56, do

## **Energy Hazard**

Warning

The switch can be configured for a DC power source. Do not touch terminals while they are live the following warning to prevent injury.

#### Warning Statement 1086 Power Terminals

Hazardous voltage or energy may be present on power terminals. Always replace cover w not in service. Be sure uninsulated conductors are not accessible when cover is in place.

## **Preventing Electrostatic Discharge Damage**

Many components can be damaged by static electricity. Not exercising the proper electrostatic of (ESD) precautions can result in intermittent or complete component failures. To minimize the potential estimates and ensure the potential estimates and ensure the adequate skin contact.

**Note** Check the resistance value of the ESD-preventive strap periodically. The measurement sh megohms.

Before you perform any of the procedures in this guide, attach an ESD-preventive strap to your connect the leash to the chassis.



## Cautions and Regulatory Compliance Statements for NEBS

The NEBS-GR-1089-CORE regulatory compliance statements and requirements are discussed in the

Warning	The intrabuilding port(s) of the equipment or subassembly, which is the management Ethernet shielded intrabuilding cabling/wiring that is grounded at both ends. Statement 7003
Warning	The intrabuilding port(s) of the equipment or subassembly, which is the management Ethernet be metallically connected to interfaces that connect to the OSP or its wiring. These interfaces for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE isolation from the exposed OSP cabling. The addition of Primary Protectors is not sufficient pro

order to connect these interfaces metallically to OSP wiring. Statement 7005

# Warning This equipment shall be connected to AC mains provided with a surge protective device (SPD equipment complying with NFPA 70, the National Electrical Code (NEC). Statement 7012

Warning	This equipment is suitable for	installations utilizing the Common	Bonding Network (CBN). State
---------	--------------------------------	------------------------------------	------------------------------

Warning	The battery return condi	ctor of this equipment shall be	e treated as (DC-I). Statement 7016
---------	--------------------------	---------------------------------	-------------------------------------

Warning This equipment is suitable for installation in Network Telecommunications Facilities. Statement

Warning This equipment is suitable for installation in locations where the NEC applies. Statement 8016

## **Installation Guidelines**

Before installing the chassis, ensure that the following guidelines are met:

- Site is properly prepared so that there is sufficient room for installation and maintenance.
- Operating environment is within the ranges that are listed in Environment and Physical specific
   For more details on environmental requirements, see
   Cisco Nexus 9800 Series Switcher
- Chassis is mounted at the bottom of the rack if it is the only unit in the rack.



- When mounting the chassis in a partially filled rack, load the rack from the bottom to the to heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or ser chassis in the rack.
- Airflow around the chassis and through the vents is unrestricted.
- Cabling is away from sources of electrical noise, such as radios, power lines, and fluorescendistrures. Make sure that the cabling is safely away from other devices that might damage to
- Each port must match the wave-length specifications on each end of the cable, and the cable must exceed the stipulated cable length.

Note

Cisco 9800 Series switches function in operating temperatures of up to 40°C at sea level. For ever (1000 ft) elevation upto 1800 meters (6000 ft), the maximum temperature is reduced by 1° on environmental requirements, see Cisco Nexus 9800 Series Switches Data She

## **Procure Tools and Equipment**

Obtain these necessary tools and equipment for installing the chassis:

- Number 1 and number 2 Phillips screwdrivers with torque capability to rack-mount the characteristics.
- 3/16-inch flat-blade screwdriver.
- Tape measure and level.
- ESD wrist strap or other grounding device.
- Antistatic mat or antistatic foam.
- Two-hole ground lug (1).
- Grounding cable (2 AWG recommended), sized according to local and national installation the required length depends on the proximity of the switch to proper grounding facilities.
- A crimping tool specified by the lug manufacturer that is large enough to accommodate the lug.
- · Wire-stripping tool.
- A maximum of 70 rack mount screws can be used based on your rack selection.

### **Rack Mount and Accessory Kits**

#### Accessory Kit

Accessory kit (N9K-C9800-IN-KIT) includes the following:



Table 6: Accessory Kit

#### Illustration

#### Description

Rack mount kit (N9K-C9800-AR-KIT):

- Support rails are non-adjustable
- Set the vertical support rack rails at 32" pitch

#### Ground lug kit

- Two-hole lug (1)
- 1/4"-20 Phillips pan-head screws (2)

ESD wrist strap (disposable)

#### **More Hardware Components**

If you purchased this product through a Cisco reseller, you might receive more contents in your kit, s documentation, hardware, and power cables.

The shipped cables depend on your specification when placing an order. See the Power Supply Pow Specifications section for information on the available power cords.

If you notice any discrepancies or damage, send the following information to your customer service representative by email:

- Invoice number of the shipper (see the packing slip)
- Model and serial number of the missing or damaged unit
- Description of the problem and how it affects the installation
- $\bullet$  Photos of the damage to external packaging, internal packaging, and product

## **Prepare Your Location**

This section illustrates how the building that houses the chassis must be properly grounded to the earth groun



Prepare for Installation

**Note** Unless specified otherwise, the image is only for representational purposes. The rack's ac size may vary.

Note This image is only for representational purposes. Your grounding requirement depends on

Figure 2: Building with Rack Room Connected to Earth Ground



Prepare Yourself

# **Prepare Yourself**

This section illustrates how to prepare yourself before removing the chassis from the sealed antistat. The figures show how to cuff the ESD strap around the wrist and the ground cord that connects the the ground. ESD wrist straps are the primary means of controlling static charge on personnel.

Figure 3: Wearing the ESD Strap



### **Prepare Rack for Chassis Installation**

Install the switch on a standard 19 inch, Electronic Industries Alliance (EIA) rack with mounting a conform to English universal hole spacing according to Section 1 of the ANSI/EIA-310-D-1992 s

The spacing between the posts of the rack must be (EIA-310-D-1992 19-inch rack compatible) to accommodate the width of the chassis.

Before you move the chassis or mount the chassis into the rack, we recommend that you do the

#### Procedure

- **Step 1** Place the rack at the location where you plan to install the chassis.
- Step 2 (Optional) Secure the rack to the floor.

To bolt the rack to the floor, a floor bolt kit (also called an anchor embedment kit) is required. Fo on bolting the rack to the floor, consult a company that specializes in floor mounting kits (such a Hilti.com for details). Make sure that floor mounting bolts are accessible, especially if annual r bolts is required.

Note Ensure that the rack in which the chassis is being installed is grounded to earth g

### **Clearance Requirements**

To ensure adequate airflow, we recommended that you maintain a minimum clearance distance mentioned in the following figure.

Following figure shows the clearances required for installation of the switch.



(11) Front service

(12) Front chass

(13) Airflow dir

Figure 4: Clearances Required Around the Chassis

(1) Vertical rack post	(8) Mounting de
(2) Vertical rack rail	(9) Chassis depth
(3) Chassis	(10) Depth from t

(4) Outside of the rack (no clearance required)

(5) Rear chassis width

(6) Clearance required for the fan tray handle at the rear

 $(7) \ \mbox{Rear}$  service area for the fan tray and fabric card replacement

Following figure shows the clearances required for the cable management of the switch.



Figure 5: Clearances Required Around the Chassis Door

- (1) Overall door width on side (in an open position)
- (2) Maximum vertical rack rail setback, when filters are installed on the chassis
- (3) Depth of cable manage
- (4) Overall door depth on



Clearance Requirements

\_



### **Unpack and Install the Chassis**

**Note** The images in this chapter are only for representation purposes, unless specified otherwis appearance and size may vary.

- Unpack the Chassis, on page 19
- · Install Bottom-Support Rails, on page 21
- Transfer Chassis to a Mechanical Lifting Device, on page 22
- · Mount Chassis Into the Rack, on page 24
- Install Cable Management on a Chassis , on page 31
- Attach Front Door to Chassis, on page 34

## **Unpack the Chassis**

**Tip** Be sure to save the packaging in case you need to return any of the components products.

Ensure that there is sufficient room around the chassis pallet for unpacking. For information about dimensions and clearance requirements see, Clearance Requirements.

Carefully move the pallet containing the chassis to the staging area where you plan on unpacking



Unpack an

Unpack the Chassis



Figure 6: Remove Shipping Brackets from the Chassis

Remove the shipping brackets:

• 16 x M4 screws from the chassis

To make the chassis weigh less for moving, remove the following module and place them where their cowill not be damaged:

• Fan trays

Leave the chassis on the pallet until you are ready to move and install the chassis in a rack.

# **Install Bottom-Support Rails**

The bottom-support rails support the weight of the chassis in the rack. To maximize the stability you must attach these rails at the lowest possible rack unit (RU).

#### Procedure

- Step 1 Position the vertical rack rails at 32" depth to match with the length of the bottom-support rails. Considerations.
  - Maintain at least 16 RU (28 inches [71.12 cm]) for 9808 chassis of vertical space above su
- Step 2 Attach the bottom-support rail to the rack using a Phillips torque screwdriver on M6 x 19 mm or inch screws for each end of the rail (as shown in the following figure) and tighten each screw to 40 in-lbs N-m) of torque.



Figure 7: Attach Bottom-Support Rails to a Rack

Note Use at least three screws on each end of each bottom-support rail.

Step 3 Repeat Steps 1 and 2 to attach the other bottom-support rail to the rack.

**Note** Make sure that the two bottom-support rails are level with one another. If they are not level, a

the higher rail down to the level of the lower rail.

#### What to do next

Mount the chassis into the rack.

## **Transfer Chassis to a Mechanical Lifting Device**

#### Procedure

Step 1 Place the mechanical lifting device in front of the chassis on the pallet (or on Line Card side) as sho

Note Illustrations are for representational purposes only.



Figure 8: Align the Lifting Device in Front of the Chassis on the Pallet

Step 2 Prepare to use the mechanical lifting device by placing a piece of cardboard on the surface of the prevent scratching).

Step 3 With at least two or three people move the chassis carefully from the pallet onto the lifting device



Figure 9: Move the Chassis on to the Lifting Device

#### What to do next

After moving the chassis to the room or area where you will install it, begin the procedure to mount the chas into the rack.

### **Mount Chassis Into the Rack**

To accommodate equipment racks with different mounting hole patterns, the chassis mounting brack groups of screw holes on either side. The mounting holes in the chassis mounting brackets are spaced so the one mounting hole in each hole group aligns with a corresponding hole in the equipment rack. By us corresponding mounting hole (in the same hole group) on the opposite side of the chassis, you can chassis in the rack.

**Note** To lift the chassis, use a mechanical lift. Do not use the handles on the side of the chassis. Use the side of only repositioning the chassis after it is already on the mechanical lift or in the rack or cabin

### Procedure

Step 1 Using your mechanical lift, raise the chassis so that it is in level with or not more than 1/4 inch [0.63: above the rails.



- Step 2 Push the chassis all the way onto the rack so that the vertical mounting brackets on the front of the chas come in contact with the vertical mounting rails on the rack.
- Step 3 Use screws provided with the rack to secure the chassis with the vertical mounting rails on the r

  Figure 10: Attach Chassis to Rack Front

Note You should remove the power shelf to facilitate attaching chassis to the rack.

Step 4 Use the screws provided with the rack to attach the chassis rear rails.



Mount Chassis Into the Rack

Figure 11: Attach Chassis to Rack - Rear Right View

1 Rear right rack mounting bracket.

2 Install screws fro 26 in-lbs (2.93 I