Cisco C9610 Supervisor Install Note

Cisco C9610 Series Smart Switches
Updated February 6, 2026

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1 Cisco C9610 Series Supervisor Engine Install Note

Topics:

- Cisco C9610 series supervisor engine modules
- Front panel components
- Prepare to install and remove the supervisor engine modules
- Remove a supervisor engine module
- Install a supervisor engine module
- Remove a SATA SSD module
- Install a SATA SSD module

Provides installation and removal instructions for Cisco C9610 Series Supervisor Engine modules and SATA SSDs.

This module details the supported supervisor engine models, chassis compatibility, front panel features, LED indicators, and safety guidelines. It also includes step-by-step procedures for handling supervisor engines and SSD modules, emphasizes electrostatic discharge (ESD) protection, and lists required tools, ensuring proper installation and maintenance of the Cisco C9610R switch chassis.

Cisco C9610 series supervisor engine modules

Describes the Cisco C9610 series supervisor engines.

The Cisco C9610 supervisor engines are high-performance supervisor engines, optimized for large-scale enterprise and campus core network deployments. The supervisor engines act as the centralized management and control module, and deliver switching, routing, and programmability capabilities. The Cisco C9610R chassis supports two supervisor engines.

This table provides the list of supported supervisor engines.

Table 1: Supported supervisor engines

Product ID	Description
C9610-SUP-3	Cisco C9610 Series Supervisor 3 module
C9610-SUP-3XL	Cisco C9610 Series Supervisor 3XL module

Chassis compatibility

This section lists the supervisor engines and the compatibility with the Cisco C9610R chassis.

Table 2: Chassis compatibility

Compatibility information	C9610-SUP-3	C9610-SUP-3XL
Chassis compatibility	Supported on Cisco C9610R series 10 slot chassis (C9610R) with two supervisor engine modules, and eight line card slots.	
Minimum software requirements	Cisco IOS XE 17.18.1 and later releases	Cisco IOS XE 17.18.1 and later releases
Chassis slot restrictions	C9610R: Slots 5 and 6 only (redundant supervisor engines supported). The primary supervisor engine can be installed in either slot.	
Bandwidth per slot	6.4 Tbps full-duplex per slot	6.4 Tbps full-duplex per slot
Memory	Double Data Rate 4 Synchronous Dynamic Random-Access Memory: 32 GB Onboard flash: 32 GB	Double Data Rate 4 Synchronous Dynamic Random-Access Memory: 32 GB Onboard flash: 32 GB
Line card compatibility	• C9610-LC-32CD • C9610-LC-40YL4CD Supported with the LC adapter, C9610-LC-ADPT • C9600-LC-40YL4CD • C9600-LC-48TX • C9600X-LC-32CD • C9600X-LC-56YL4C	• C9610-LC-32CD • C9610-LC-40YL4CD Supported with the LC adapter, C9610-LC-ADPT • C9600-LC-40YL4CD • C9600-LC-48TX • C9600X-LC-32CD • C9600X-LC-56YL4C

C9610-SUP-3

Features of C9610-SUP-3 supervisor engine.

The supervisor engine, C9610-SUP-3 supported on the Cisco C9610R chassis is based on the Cisco Silicon One E100 ASIC.

This illustration shows the front view of C9610-SUP-3 with the major features identified.

Figure 1: Front-panel of C9610-SUP-3

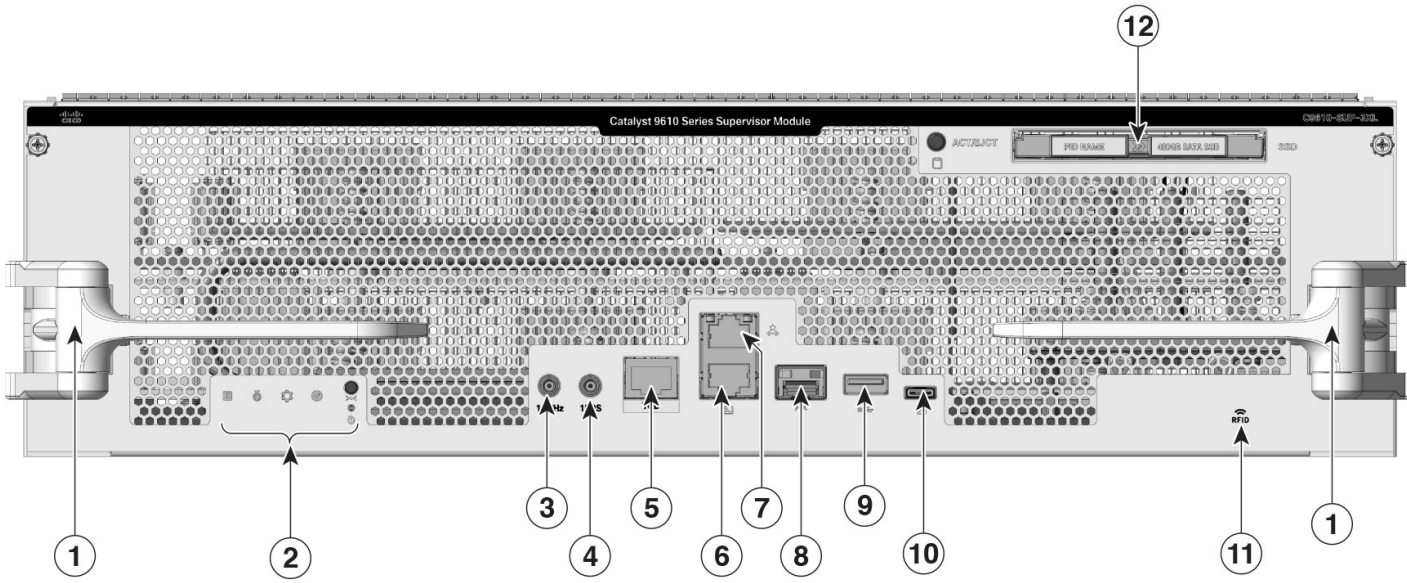


Table 3: Front panel components

1	Ejector levers	7	RJ-45 console port
2	Supervisor engine LEDs	8	10 G SFP+ management port
3	10MHz (I/O) DIN port	9	USB Type A host port
4	1PPS (I/O) DIN port	10	USB C console port
5	TOD PTP RJ-45 port	11	Optional RFID
6	RJ-45 Ethernet management port	12	SATA SSD

C9610-SUP-3XL

Features of C9610-SUP-3XL.

The supervisor engine, C9610-SUP-3XL supported on the Cisco C9610R chassis is based on the Cisco Silicon One Krypton (K100) ASIC.

This illustration shows the front view of C9610-SUP-3XL with the major features identified.

Figure 2: Front-panel of C9610-SUP-3XL

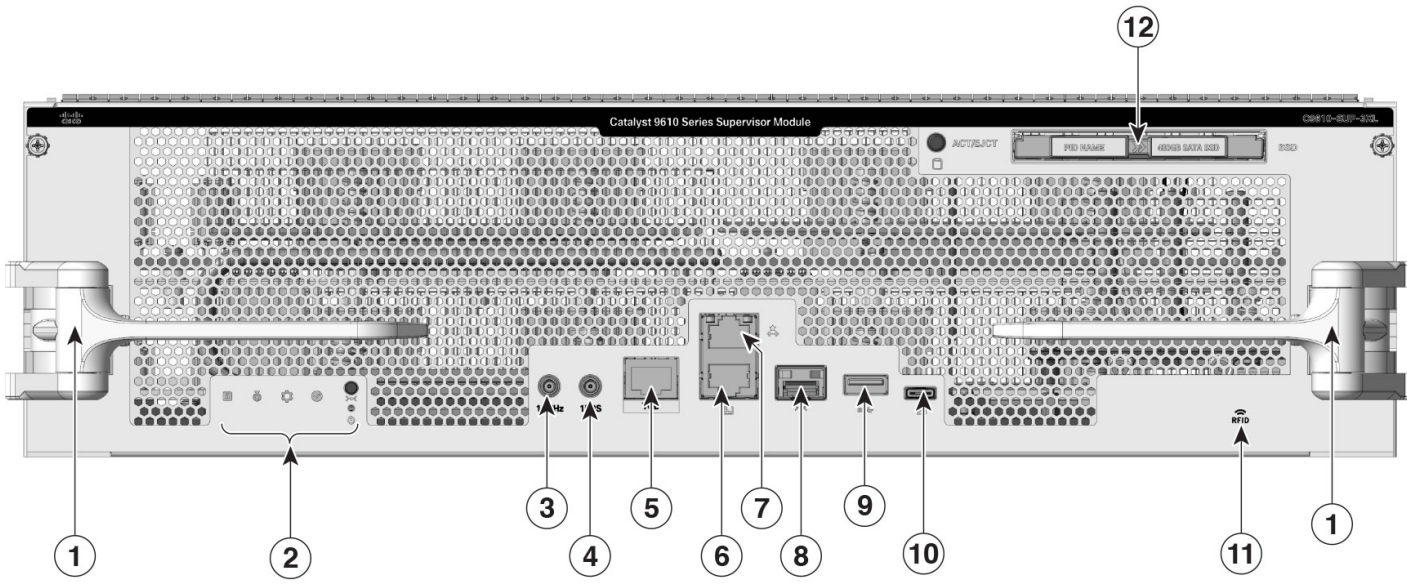


Table 4: Front panel components

1	Ejector levers	7	RJ-45 console port
2	Supervisor engine LEDs	8	10 G SFP+ management port
3	10MHz (I/O) DIN port	9	USB Type A host port
4	1PPS (I/O) DIN port	10	USB C console port
5	TOD PTP RJ-45 port	11	Optional RFID
6	RJ-45 Ethernet management port	12	SATA SSD

Ports and LEDs

The ports and LEDs available on the C9610R supervisor engine modules.

This table describes the ports and LEDs on the supervisor engine modules of Cisco C9610 Series Smart Switches.

Table 5: Description of ports and LEDs

Feature	Description
USB Type C console port	The USB Type C port provides console connection using a USB C cable.
USB 3.0 Type A host port	The supervisor engine provides a single USB 3.0 Type A port for external storage and dongles. It supports USB versions 3.0, 2.0, 1.1, and 1.0.
10/100/1000 Ethernet Management port (RJ-45 connector)	The Ethernet management port is a Layer 3 host port to which you can connect a PC. By default, the Ethernet management port is enabled. You can use the Ethernet management port for network management.

Feature	Description
Console port (RJ-45 connector)	The RJ-45 console port is a serial communication port used for device management and configuration. It allows direct access to the Cisco device's CLI for initial setup, troubleshooting, or recovery when network access is unavailable. The console port transmits serial data rather than Ethernet traffic. The RJ-45 console port uses the optional RJ-45-to-DB8 female cable physical connector.
Blue beacon	The blue beacon LED on the front panel of the supervisor engine that allows easy identification of the device. By default, the blue beacon LED is off. You need to switch it on through the CLI.
Status LED	The status LED indicates the status of the supervisor engine. • Green indicates that all diagnostic tests have passed after image booting. • Amber indicates a major environmental warning. • Red indicates a fault in the module due to parity error or failed diagnostic tests or hardware failure. • Off indicates that the supervisor module is disabled or is not powered up.
System LED	Indicates the environmental monitors of the system.
Active LED	Indicates whether the supervisor is in active, standby, or ROMMON mode.
Reset button	The reset switch is used to reset and restart a supervisor engine.
10G SFP+ management port	The supervisor engine has one 10G SFP+ management port. This port requires small form-factor pluggable (SFP+) transceivers.
10MHz	A 10MHz (I/O) SyncE DIN port is available on the supervisor engine. This is an interface port used for precise frequency synchronization in networking equipments. **Note:** This port is not enabled.
1PPS	The1PPS (I/O) SyncE DIN port is an interface that inputs or outputs a One Pulse Per Second (1PPS) timing signal for precise time synchronization, using a DIN-style 1.0/2.3 coaxial connector typically with 50-ohm impedance. **Note:** This port is not enabled.
TOD	The Time of Day (TOD) port is used to receive or provide precise time information from external timing sources. **Note:** This port is not enabled.

Feature	Description
SATA SSD module slot	The supervisor module has a Serial Advanced Technology Attachment (SATA) connector that supports solid state drive (SSD) local storage for container-based application hosting. This is an optional feature.
Model number	Supervisor engine model number.
LEDs	Various LEDs available on the supervisor engine.

Front panel components

Provides information about the front panel components, their LEDs, and the status of these LEDs available on the C9610 supervisor engines.

This section describes the front panel components of the Cisco C9610 supervisor engine modules.

Console ports

Describes the console ports available on the C9610 supervisor engines.

The front panel of the supervisor module provides two types of console ports.

- RJ-45 console port: This port provides universal asynchronous receiver/transmitter (UART) support to access the route processor with a serial console running at 9600 baud rate with 8 bits for data, no parity bit, and 1 stop bit.
- USB C console port: This port provides direct access to the CLI of the switch. It connects a computer or terminal directly to the Cisco device for configuration purposes. This port also enables terminal communication to configure routers, switches, firewalls, or other Cisco network devices.

Only one of the consoles is active at a time. When a USB host (PC) is plugged into the USB console port, the hardware automatically switches over to use the USB console. Only a PC that has the necessary USB console device driver causes the USB console to become active. Plugging in a PC that does not have the USB console driver support does not cause a switchover. When the USB cable is removed, or the PC deactivates the USB connection, or a host is not detected on the USB console, the hardware automatically switches to the RJ-45 console interface.

The console port allows you to

- configure the switch from the CLI,
- configure SNMP agent parameters, and
- monitor network statistics and errors.

Management ports

Describes the management ports on the C9610 supervisor engines.

The supervisor module provides two types of management ports, 10/100/1000BASE-T RJ-45 port and 10G SFP+ port. The RJ-45 and SFP+ management ports provide out-of-band (OOB) Ethernet network connectivity, which enables you to use the CLI to manage the switch using its IP address. The management ports support TFTP image downloading, network management, SNMP, Telnet, and Secure Shell (SSH) connections.

- SFP+ management port: This port is a fiber port that is referred to as TenGigabitEthernet 0/1 port. C9610-SUP-3 and C9610-SUP-3XL modules has one SFP+ port that supports 10G speeds.
- Ethernet management port: This port is a copper Ethernet port that is referred to as GigabitEthernet0/0 (Gi0/0) port. The Ethernet management port supports speeds up to 10/100/1000 Mbps and is set to auto-negotiate.

Based on the cable and connectors that you are using, you can use one of these ports to connect the management interface to the network. Use only one of these management ports; the switch does not support the use of both management ports. By default, the Ethernet management port is enabled.

Use the management port instead of the console port for network management. The switch cannot route packets from a management port to a network port, and from a network port to a management port. To obtain this, the management interface is automatically placed in a separate routing domain or virtual routing and forwarding (VRF) domain, called Mgmt-vrf. The devices support OOB management through the Mgmt-vrf, which is used to segment management traffic from the global routing table of the switch.

When managing a switch, connect the PC to the management port of the supervisor engine.

Reset button

Describes how to reset the supervisor engine.

A recessed access button is available on the front panel of the supervisor module to reset and restart the module. Using a pin, press and hold the button inwards for 5 seconds to reset and restart the module.

Optional RFID tag

Describes the optional RFID tag on the C9610 supervisor engine modules.

The Cisco C9610 supervisor engine modules have an optional, built-in, front-facing, passive Radio Frequency Identification (RFID) tag that uses Ultra High Frequency (UHF) RFID technology and requires an RFID reader with compatible software. It provides auto-identification capabilities for asset management and tracking. The RFID tags are compatible with the Generation 2 GS1 EPC Global Standard and are ISO 18000-6C compliant. They operate in the 860- to 960-MHz UHF band. For more information, see Radio Frequency Identification (RFID) on Cisco Catalyst 9000 Family Switches White Paper.

For Cisco C9610 series smart switches, the RFID tag is optional. Based on your requirements, you can choose to order the switch with or without an RFID tag at the time of purchase.

Supervisor engine LEDs

Describes the LEDs available on the C9610 supervisor engine.

This section describes the LEDs on C9610 supervisor engine.

Figure 3: C9610 supervisor front panel with LEDs

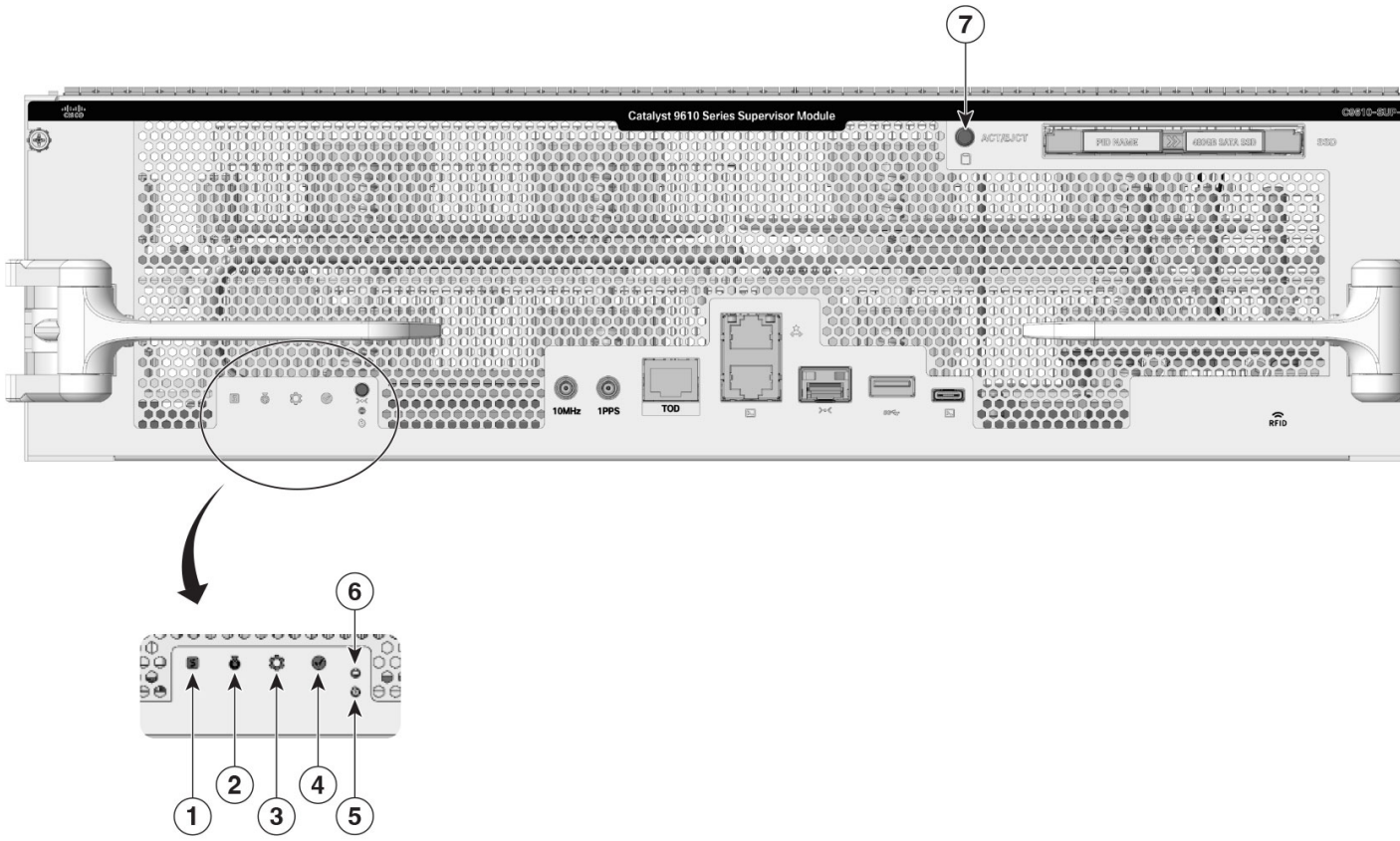


Table 6: Front panel LEDs

1	Status LED	5	Mode button **Note:** Not supported
2	Blue beacon LED	6	Reset button
3	System LED	7	SSD Eject/Status LED
4	Active LED	-	-

LEDs and status

This section describes the LEDs and their status. All these LEDs are on the front panel of the supervisor engine.

Table 7: LEDs and their corresponding status

LED type	LED position or color	Status
Status LED	Green	Indicates that all the diagnostic tests have passed after image booting.
	Amber	Indicates a major environmental warning.
	Red	Indicates a fault in the module due to a parity error, failed diagnostic tests, or hardware failure.
	Off	Indicates that the supervisor module is disabled or is not powered up.
Blue beacon LED	Solid blue	Identifies the supervisor module receiving the beacon signal. By default the blue beacon LED is off. You needs to switch it on using the CLI.
System LED	Green	Indicates that the environmental monitors are normal.
	Amber	Indicates a minor fault such as a partial power supply or fan failure.
	Red	Indicates a major fault, for example, situations where the temperature of the supervisor module exceeds the critical threshold.
Active LED	Green	Indicates that the supervisor module is operational, and is functioning as the active supervisor in redundant supervisor module configurations.
	Amber	Indicates one of the following: • Supervisor module is in ROMmon mode, or • Supervisor module is functioning as the standby supervisor in redundant supervisor module configurations.
Mode button	Not supported	
Reset button	Reset button	
SSD LED	Green	SSD is operational.
	Yellow	Indicates that the SSD is being unmounted.
	Amber	SSD is unmounted.
	Off	SSD is not available in the supervisor engine.

SATA SSD modules

Describes the SATA SSD module supported on Cisco C9610R supervisor engine modules.

The Cisco C9610 supervisor engine modules support pluggable Serial Advanced Technology Attachment (SATA) Solid State Drive (SSD) modules. The SATA SSD module slot is located on the front panel of the supervisor engine.

The SATA module is a field replaceable unit (FRU). A hot-swap button on the front panel of the supervisor engine initiates the removal of the SATA module. You must press the button to safely eject the SSD from the supervisor engine.

The SSD module storage capacity ranges are 240GB, 480GB and 960GB.

USB Type A port

Describes the USB3.0 Type A port on Cisco C9610 supervisor engines.

The USB 3.0 Type A port provides access to external USB flash devices (also known as thumb drives or USB keys). The port supports Cisco USB flash drives with capacities from 64MB to 16GB. USB devices with port densities of 64 MB, 128 MB, 256 MB, 1 GB, 4 GB, 8 GB, and 16 GB are supported. The port provides 2.5 W of power to the device connected to the port.

Cisco IOS XE software provides standard file system access to the flash device, such as read, write, erase, and copy, as well as the ability to format the flash device with a FAT file system.

These guidelines apply when using USB flash drives.

- There must at least be one partition on the USB flash drive. If the drive has more than one partition, only the first partition is visible in the system (Cisco IOS XE).
- If you partition the flash drive, we recommend that you use a Linux system to perform this task. This ensures that the first partition is a usable partition when connected to the switch.

  Using a Windows or MacBook machine utility to perform this task may result in two partitions on the drive by default (partition for system information + actual usable partition). When such a flash drive is connected to the switch, the system displays only the first system information partition, and not the actual usable partition.

USB Type C port

Describes the USB Type C port.

The USB Type C port provides console connection using a USB C cable. It functions as a host to manage connected peripherals.

10MHz (I/O) DIN port

Describes the 10MHz (I/O) DIN port on C9610 smart switches.

A 10MHz (I/O) DIN connector is an interface port used for precise frequency synchronization in networking equipments. This port can be configured as input ports from an external clocking and timing source, like GPS.

Note:

This interface port is not enabled.

1PPS (I/O) DIN port

Defines the 1PPS (I/O) DIN port on C9610 smart switches.

The 1PPS (I/O) DIN connector is an interface that inputs or outputs a One Pulse Per Second (1PPS) timing signal for precise time synchronization, using a DIN-style 1.0/2.3 coaxial connector typically with 50-ohm impedance.

Note:

This interface port is not enabled.

TOD PTP RJ-45 port

Describes the TOD PTP RJ-45 port on the C9610 supervisor engines.

A TOD PTP RJ-45 port is a physical Ethernet port that supports Precision Time Protocol (PTP) timing synchronization and Time of Day (TOD) functions using an RJ-45 connector.

TOD refers to a time source or time-stamping capability available at the hardware or system level for precise timekeeping. It may be used in conjunction with PTP to obtain and distribute exact time-of-day information across devices.

Note:

This interface port is not enabled.

Prepare to install and remove the supervisor engine modules

What to do before you install or remove a supervisor engine from C9610R chassis.

Before you install or remove a supervisor engine on a Cisco C9610R chassis

- adhere to the safety requirements,
- refer how to prevent ESD damage, and
- ensure that you have the right tools.

Safety warnings

Safety warnings to adhere to before removing or installing the supervisor engines on C9610R chassis.

Safety warnings appear throughout this publication in procedures that may harm you if you perform them incorrectly. A warning symbol precedes each warning statement. The warnings below are general warnings that are applicable to the entire publication.

Warning:

The supervisor engine modules are very heavy and must be handled carefully. In case the modules are dropped to the ground, it can hurt the user.

Warning:

Statement 1071–Warning Definition

IMPORTANT SAFETY INSTRUCTIONS

Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Read the installation instructions before using, installing, or connecting the system to the power source. Use the statement number at the beginning of each warning statement to locate its translation in the translated safety warnings for this device.

SAVE THESE INSTRUCTIONS



Warning:

Statement 445–Connect the Chassis to Earth Ground

To reduce the risk of electric shock, connect the chassis of this equipment to permanent earth ground during normal use.

Warning:

Statement 1008–Class 1 Laser Product

This product is a Class 1 laser product.

Warning:

Statement 1015– Battery Handling

To reduce risk of fire, explosion, or leakage of flammable liquid or gas:

- Replace the battery only with the same or equivalent type recommended by the manufacturer.
- Do not dismantle, crush, puncture, use a sharp tool to remove, short the external contacts, or dispose of the battery in fire.
- Do not use if battery is warped or swollen.
- Do not store or use battery in a temperature above 104° F (40ºC).
- Do not store or use battery in low air pressure environment 10.1 psia at 10,000 feet (3,000 meters).

Warning:

Statement 1029–Blank Faceplates and Cover Panels

Blank faceplates and cover panels serve three important functions: they reduce the risk of electric shock and fire, they contain electromagnetic interference (EMI) that might disrupt other equipment, and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

Warning:

Statement 1055–Class 1/1M Laser

Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.



Warning:

Statement 1073–No User-Serviceable Parts

There are no serviceable parts inside. To avoid risk of electric shock, do not open.

Warning:

Statement 1056–Unterminated Fiber Cable

Invisible laser radiation may be emitted from the end of the unterminated fiber cable or connector. Do not view directly with optical instruments. Viewing the laser output with certain optical instruments, for example, eye loupes, magnifiers, and microscopes, within a distance of 100 mm, may pose an eye hazard.

Warning:

Statement 1074–Comply with Local and National Electrical Codes

To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

Note:

Statement 1089—Instructed and Skilled Person Definitions

An instructed person is someone who has been instructed and trained by a skilled person and takes the necessary precautions when working with equipment.

A skilled person or qualified personnel is someone who has training or experience in the equipment technology and understands potential hazards when working with equipment.

Warning:

Statement 1090—Installation by Skilled Person

Only a skilled person should be allowed to install, replace, or service this equipment. See statement 1089 for the definition of a skilled person.

Warning:

Statement 1091—Installation by an Instructed Person

Only an instructed person should be allowed to install, replace, or service this equipment. See statement 1089 for the definition of an instructed person.

Warning:

Statement 1099—Before Connecting to System Power Supply

High touch/leakage current–Permanently connected protective earth ground is essential before connecting to the system power supply.

Note:

Statement 7001—ESD Mitigation

This equipment may be ESD sensitive. Always use an ESD ankle or wrist strap before handling equipment. Connect the equipment end of the ESD strap to an unfinished surface of the equipment chassis or to the ESD jack on the equipment if provided.

Warning:

Statement 7003— Shielded Cable Requirements for Intrabuilding Lightning Surge

The intrabuilding port(s) of the equipment or subassembly must use shielded intrabuilding cabling/wiring that is grounded at both ends.

The following port(s) are considered intrabuilding ports on this equipment: RJ45 Copper Ethernet Port

Note:

Statement 7004— Special Accessories Required to Comply with GR-1089 Emission and Immunity Requirements

To comply with the emission and immunity requirements of GR-1089, shielded cables are required for the following ports: RJ45 Copper Ethernet Port

Warning:

Statement 7005— Intrabuilding Lightning Surge and AC Power Fault

The intrabuilding port(s) of the equipment or subassembly is suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding port(s) of the equipment or subassembly MUST NOT be metallically connected to interfaces that connect to the OSP or its wiring for more than 6 meters (approximately 20 feet). These interfaces are designed for use as intrabuilding interfaces only (Type 2, 4, or 4a ports as described in GR-1089) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection in order to connect these interfaces metallically to an OSP wiring system.

The following ports are considered intrabuilding ports on the equipment: RJ45 Copper Ethernet Port

Warning:

Statement 9001—Product Disposal

Ultimate disposal of this product should be handled according to all national laws and regulations.

Prevent ESD damage

Guidelines to prevent ESD damage.

An electrostatic discharge (ESD) strap, is a tool used to prevent damage to sensitive electronic components from static electricity. It is a wrist strap that connects the wearer to a grounding point, ensuring that any static charge on the body is safely dissipated to the ground, thus preventing damage to electronic components during handling.

ESD damage might occur when modules or other field replaceable units (FRUs) are improperly handled, resulting in intermittent or complete failure of the modules or FRUs. Modules consist of printed circuit boards that are fixed in metal carriers. EMI shielding and connectors are integral components of a carrier. Although the metal carrier helps to protect the board from ESD, always use an ESD-grounding strap when handling modules. To prevent ESD damage, follow these guidelines.

- Always use an ESD wrist or ankle strap and ensure that it makes good skin contact.
- Connect the equipment end of the strap to an unfinished chassis surface.
- When installing a component, use an available ejector lever to properly seat the bus connectors in the backplane or midplane. These devices prevent accidental removal, provide proper grounding for the system, and help to ensure that bus connectors are properly seated.
- When removing a component, use an available ejector lever to release the bus connectors from the backplane or midplane.
- Handle carriers by available handles or edges only; avoid touching the printed circuit boards or connectors.
- Place a removed component board-side-up on an antistatic surface or in a static-shielding container. If you plan to return the component to the factory, immediately place it in a static-shielding container.
- Avoid contact between the printed circuit boards and clothing. The wrist strap only protects components from ESD voltages on the body; ESD voltages on clothing can still cause damage.
- Never attempt to remove the printed circuit board from the metal carrier.

Tools required

Tools required for installing and removing a line card.

You need these tools to install or remove supervisor engines and line cards.

- Your own ESD-prevention equipment or the disposable grounding wrist strap included with all upgrade kits, FRUs, and spares.
- Antistatic mat or antistatic bag

Remove a supervisor engine module

How to remove a supervisor module from the C9610R chassis.

Follow these steps to remove a supervisor engine from a C9610R chassis.

Warning:

Statement 1051—Laser Radiation

Invisible laser radiation may be emitted from disconnected fibers or connectors. Do not stare into beams or view directly with optical instruments.

Caution:

To prevent ESD damage, handle the supervisor engine by the carrier edges only.

Follow this procedure to remove a supervisor engine from the C9610R chassis. This procedure is the same for both the supported supervisor engine modules.

DANGER:

The supervisor engine modules are very heavy and must be handled carefully; if dropped, it can hurt the user.

- You will need a slot blank cover (C9610-SUP-BLANK=) if the slot is to remain empty.
- Install dust plugs into the transceiver's optical bores if the module is equipped with removable optical transceivers. This prevents possible dust contamination, which can affect port performance.
- Take necessary precautions to prevent ESD damage. Wear a grounded ESD wrist strap while handling the modules.

Procedure

1. Hold the ejector lever on both sides and push the levers in, towards the faceplate to push the supervisor engine a bit inward.

   While pressing the ejector levers, press the buttons on the left and right ejector handles to unlock the levers.

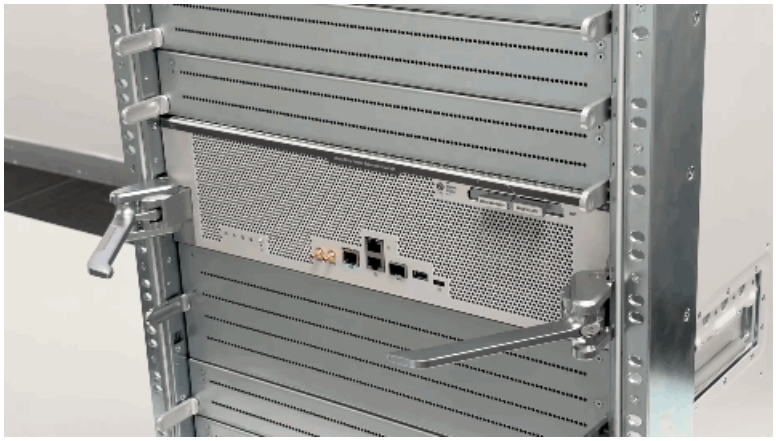
   Figure 4: Pressing the ejector lever buttons to unlock the levers

   To view the animation in PDF, click this link.

2. Pivot both the ejector levers outward simultaneously to remove the Supervisor engine.

   Figure 5: Pivoting the ejector levers outward

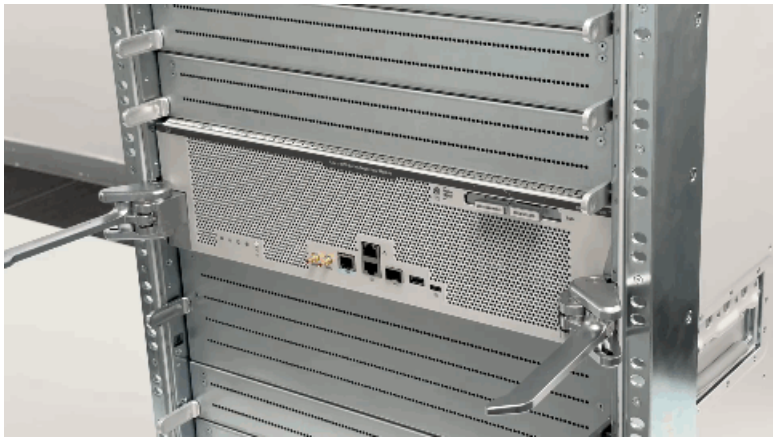


To view the animation in PDF, click this link.

3. Disengage the supervisor engine from the backplane connector and pull out the supervisor engine using the ejector lever handles. Carefully slide the supervisor engine out of the slot.

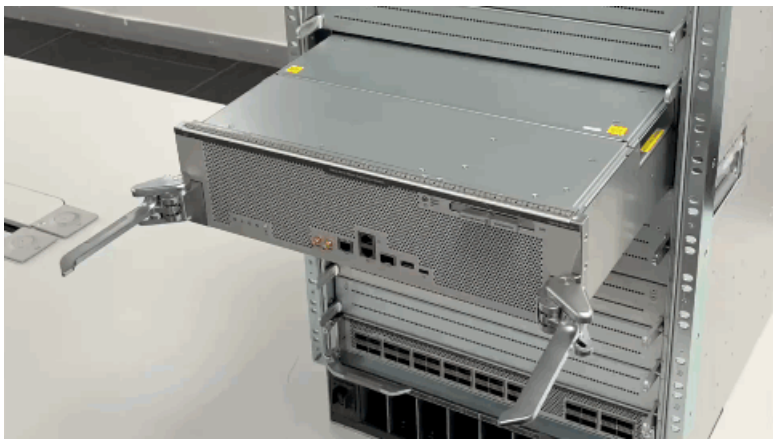
   Halfway through pulling out the supervisor engine the left and right slot guides will be visible. Hold these slot guides on both sides and carefully slide the supervisor engine out of the slot.

   Figure 6: Pulling out the supervisor engine from the slot



To view the animation in PDF, click this link.

Figure 7: Removing the supervisor engine completely



To view the animation in PDF, click this link.

4. Place the supervisor engine on an antistatic mat or in an antistatic bag.
5. Install a replacement supervisor engine after a 15-second wait. Alternatively, if the supervisor slot should remain empty, install a blank slot cover (C9610-SUP-BLANK=).

   Blanks should only be removed when installing a module and must be replaced if a module is ever removed. A syslog message is generated every 5 minutes when an empty slot is detected. You must insert a module or a slot blank to avoid chassis overheating.

   Warning:

   Statement 1029—Blank Faceplates and Cover Panels

   Blank faceplates and cover panels serve three important functions: they reduce the risk of electric shock and fire, they contain electromagnetic interference (EMI) that might disrupt other equipment, and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

Install a supervisor engine module

Installing a supervisor engine into the C9610R chassis.

Follow these steps to install a supervisor engine module into the C9610R chassis.

Caution: To prevent ESD damage, handle supervisor engines by the carrier edges only.

You can install supervisor engine modules in slot 5 and/or slot 6 of the Cisco C9610R chassis. We recommend that you install the supervisor engine modules slowly.

- When transporting or handling the supervisor engines, take care to avoid damage to the connectors on the rear panel, particularly the rightmost connector. If subject to strong impact, the connectors can be damaged.

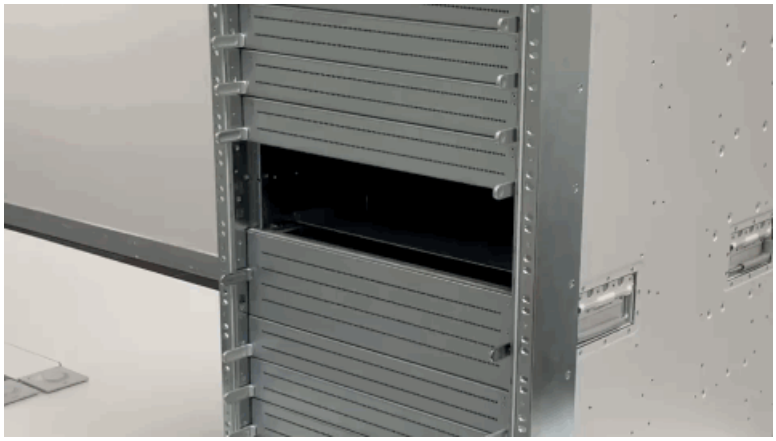
  If you suspect that the connector is stuck or damaged, inspect it carefully before installing the supervisor engine into the chassis. Do not insert the supervisor engine into the chassis without a thorough inspection, as the damaged connector can cause damage to the back pane connector in the chassis.

- Verify that both the supervisor modules in a redundant configuration are of the same type. You cannot use C9610-SUP-3 and C9610-SUP-3XL modules together in a chassis.
- Verify the chassis slot restrictions.
- Ensure that you have enough clearance to accommodate the interface equipment that you will connect directly to the supervisor engine ports.

Procedure

1. Take the necessary precautions to prevent ESD damage. Wear a grounded ESD wrist strap while handling the modules, and keep them in ESD-protective bags when they are not installed in a chassis.
2. Remove the slot blank cover (C9610-SUP-BLANK=) if present, by squeezing the release handles towards each other (with your thumb and index fingers) and slide the cover out of the bay. Save it for future use.
3. Remove the new supervisor engine from the shipping packaging. Handle the module using only the module's metal tray or the front panel. Do not touch the printed circuit board or the connector pins.
4. Hold the supervisor engine slot guides on both sides and insert it into the slot.

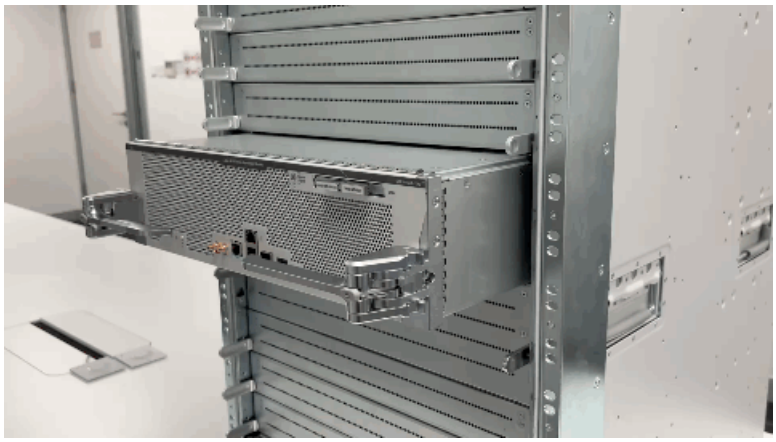
   Figure 8: Inserting the supervisor engine



To view the animation in PDF, click this link .

5. Halfway through the inserting the supervisor engine, press the button on the left and the right ejector levers and open them to the maximum permissible angle, away from the front panel of the supervisor engine.

Figure 9: Opening the ejector levers

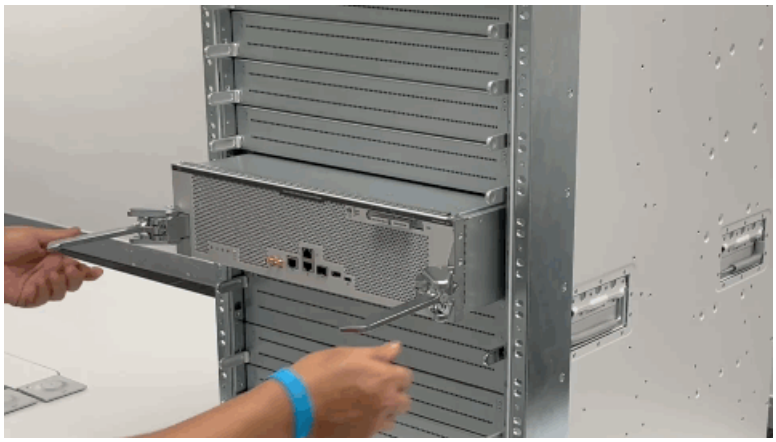


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6. Holding the ejector lever handles, slide in the supervisor engine completely into the slot, making sure to align the sides of the module with the slot guides on each side of the chassis slot.

   While sliding in the supervisor engine, ensure that the ejector jaws catch the opening slot of chassis on each side.

Figure 10: Positioning the supervisor fully into the slot

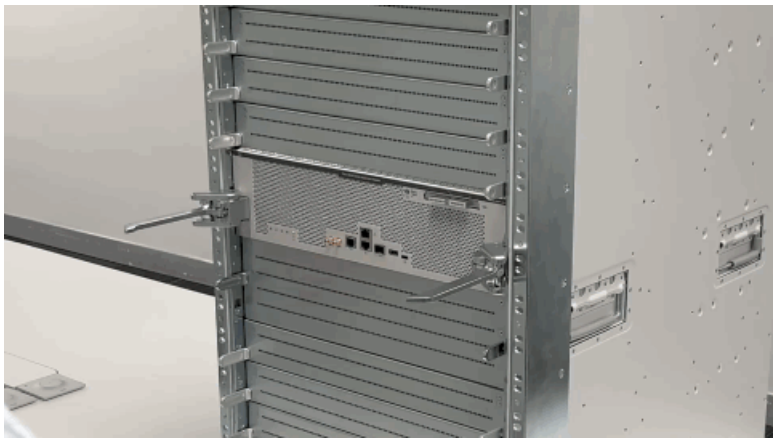


To view the animation in PDF, click this link .

After inserting the supervisor engine completely into the slot, push the supervisor engine with your hands to ensure that it is fully seated in the slot.

7. Pivot both the ejector levers inward simultaneously till the supervisor engine is fully seated.

Figure 11: Pivoting the ejectors levers inward



To view the animation in PDF, click this link .

When installed correctly:

- The ejector catch pins on both the ejector levers engage the chassis sides.
- When closed, the ejector levers are flush with the module faceplate.

8. Check the status of the module.
   a) Verify that the supervisor engine status LED is lit.
   b) Periodically check the status LED.

      If the status LED changes from amber to green, it means that the supervisor engine has completed the boot process successfully, and is now online.

      If the status LED remains amber or turns red, it means that the supervisor engine has not completed the boot process successfully, and may have encountered an error.

   c) When the switch is online, enter the **show module** command. Verify that the system acknowledges the new supervisor engine and that the module status is OK.
   d) If the module is not operational, reseat it. If the module is still not operational, contact your Cisco customer service representative.

Remove a SATA SSD module

How to remove a SATA SSD module from the C9610R supervisor engine.

Follow these steps to remove a SATA SSD module from the supervisor engine.

The SATA SSD on the Cisco C9610R supervisor engine modules is hot-swappable. You do not need to power down the system to remove the SSD.

Procedure

1. Take the necessary precautions to prevent ESD damage. Wear a grounded ESD wrist strap while handling the modules, and keep them in ESD-protective bags when they are not installed in a chassis.

2. To safely unmount the SSD, press Status/Eject LED button.

Figure 12: Pressing the SSD status/eject button



To view the animation in PDF, click this link.

3. Wait for the LED color to change to amber. Once the color is amber, the SSD can be safely removed.
4. Press the release handles towards each other with your thumb and index finger, and slide the SSD out of the bay.

Figure 13: Pressing the release handles



To view the animation in PDF, click this link.

Figure 14: Removing the SSD from the supervisor



To view the animation in PDF, click this link.

5. Install the SSD blank cover C9610-SSD-BLANK=.

   After you remove the SSD module from the supervisor engine, either install a new SSD module or install the SSD blank cover C9610-SSD-BLANK=.

   a) Orient the SSD blank cover such that the hook is on the left side.
   b) Carefully slide the SSD blank cover into the slot till it is fully seated.

Install a SATA SSD module

How to install a SATA SSD on the C9610R supervisor engine.

This task describes how to install a SATA SSD module into the C9610R supervisor engine modules.

Procedure

1. Remove the pre-installed SSD blank cover (C9610-SSD-BLANK=) by squeezing the release handles towards each other (with your thumb and index fingers) and sliding the cover out of the bay. Save it for future use.
2. Remove the new SATA SSD module from the shipping packaging.

   Handle the SSD module using only the module's metal tray or the front panel. Do not touch the printed circuit board or the connector pins.

3. Align the SATA SSD module into the slot and slide it in until the SSD module is fully seated into the slot.

   Figure 15: Inserting the SSD module into the slot

   To view the animation in PDF, click this link .

4. Press the buttons to lock the SSD module into place.

   Figure 16: Pressing the SSD module into the connector



To view the animation in PDF, click this link .

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