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# EX4550 Chassis

11-Nov-20

## Chassis Physical Specifications for EX4550 Switches

The EX4550 switch chassis is a rigid sheet-metal structure that houses all components of the switch. Table 1 summarizes the physical specifications of the EX4550 switch chassis.

Table 1: Physical Specifications of the EX4550 Switch Chassis

| Description | Value |
|---|---|
| Chassis height | 1.72 in. (4.37 cm) |
| Chassis width | • 17.35 in. (44.07 cm)<br>• The outer edges of the front mount brackets extend the width to 19 in. (48.3 cm). |
| Chassis depth | • 18.50 in. (46.99 cm) |
| Weight | • EX4550 switch with 1 AC power supply: 19.4 lb (8.8 kg)<br>• EX4550 switch with 1 DC power supply: 19.4 lb (8.8 kg)<br>• AC power supply: 2.4 lb (1.1 kg)<br>• DC power supply: 2.4 lb (1.1 kg)<br>• SFP+ expansion module: 0.74 lb (0.34 kg)<br>• 10GBASE-T expansion module: 0.9 lb (0.41 kg)<br>• QSFP+ expansion module port: 0.61 lb (0.28 kg)<br>• Virtual Chassis module: 0.66 lb (0.3 kg) |

You can mount an EX4550 switch on a standard 19-in. two-post rack. You can also mount the switch on a standard 19-in. four-post rack or in a standard 19-in. enclosed cabinet.

SEE ALSO

- Installing and Connecting an EX4550 Switch

## Field-Replaceable Units in EX4550 Switches

Field-replaceable units (FRUs) are components that you can replace at your site. The FRUs in EX4550 switches are hot-removable and hot-insertable: You can remove and replace them without powering off the switch. EX4550 switches support the following FRUs:

- Power supplies
- Fan modules
- Expansion modules
- Virtual Chassis module
- Transceivers

NOTE The EX4550-32F switch model ships with one power supply (AC or DC) and three fan modules preinstalled and the EX4550-32F-S switch model is shipped without any power supply or fan modules preinstalled; you must order them separately. The optional modules, the Virtual Chassis cable, the Virtual Chassis cable connector retainers, and transceivers are not part of the EX4550 switch shipping configuration. If you want to purchase any of these components, power supplies, or fan modules for your switch, you must order them separately.

NOTE If you have a Juniper J-Care service contract, register any addition, change, or upgrade of hardware components at https://www.juniper.net/customers/support/tools/updateinstallbase/ . Failure to do so can result in significant delays if you need replacement parts. This note does not apply if you replace existing components with the same type of component.

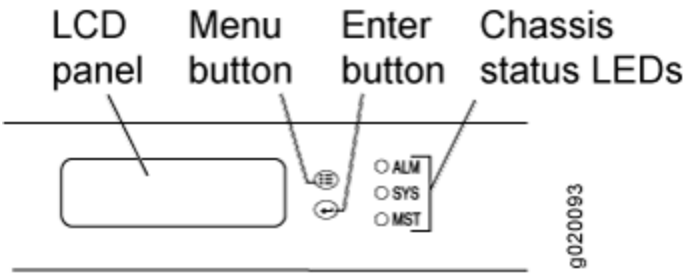
## LCD Panel in EX4550 Switches

The LCD panel of the EX4550 switch shows two lines of text, each that can contain a maximum of 16 characters. The LCD panel displays a variety of information about the switch and also provides a menu to perform basic operations such as initial setup and reboot.

There are two navigation buttons—Menu and Enter—to the right of the LCD panel.

See Figure 1.

Figure 1: LCD Panel in EX4550 Switches




The first line of text on the LCD panel displays basic information about the switch and the second line of text displays information about the mode selected on the LCD panel. You can configure the second line of the text for the LCD panel to display a custom message. If the LCD panel is configured to display a custom message, the Menu button and the Enter button are disabled. See Configuring the LCD Panel on EX Series Switches (CLI Procedure).

The LCD panel has a backlight. If the LCD panel is idle for 60 seconds, the backlight turns off. You can turn on the backlight by pressing the Menu or Enter button once. After turning on the backlight, you can toggle between the LCD panel menus by pressing the Menu button and navigate through the menu options by pressing the Enter button.

NOTE The chassis viewer in the J-Web interface also displays the LCD panel. From the J-Web interface, you can view real-time status information in the LCD panel. See Dashboard for EX Series Switches.

- LCD Panel Modes
- LCD Panel Menus

## LCD Panel Modes

The LCD panel operates in four modes: boot, idle, status, and maintenance.

The first line of text on the LCD panel displays the slot number, the role of the switch, and hostname in all the modes.

For a standalone EX4550 switch, the slot number is always `00`, and the role is always `RE`.

In an EX4550 switch that is a member of a Virtual Chassis, the first line of the LCD panel always displays:

- The slot number (the member ID for the Virtual Chassis member)
- Role of the switch in the Virtual Chassis (`RE` for primary, `BK` for backup, and `LC` for linecard member)
- Hostname

The LCD panel operates in boot mode during switch reboot. In the boot mode, the second line of the LCD panel displays the key milestones in the switch boot process. The boot mode does not have any menu options. After

the boot process is complete, the LCD panel automatically reverts to the Idle (IDLE) menu.

In idle mode, the second line of text on the LCD panel displays the mode of the network ports' Status LED and the number of chassis alarms. The number of alarms is updated every second.

In status mode, the second line displays:

- Status of the Virtual Chassis port (VCP)
- Status of the power supplies
- Status of the fan modules and the chassis temperature
- Version of Junos OS for EX Series switches loaded on the switch

In maintenance mode, the second line displays one of the following options, which you can use to configure and troubleshoot the switch:

- System halt
- System reboot
- Load rescue
- Request VC port
- Factory default
- EZSetup

## LCD Panel Menus

The LCD panel has three menus: Idle, Status, and Maintenance. You can toggle between the LCD panel menus by pressing the Menu button and navigate through the menu options by pressing the Enter button.

Table 2 describes the LCD panel menu options.

Table 2: LCD Panel Menu Options in EX4550 Switches

| Menu Label | Description |
|---|---|

| Menu Label | Description |
| --- | --- |
| IDLE | In the Idle menu:<br>• Press Enter to cycle through the Status LED modes, which are port status indicators:<br>  • ADM (administrative status)<br>  • DPX (duplex)<br>  • SPD (speed)<br>See Network Port and Expansion Module Port LEDs in EX4550 Switches for information about the Status LED modes.<br>• Press Menu to exit the Idle menu and go to the Status menu. |
| STATUS | In the Status menu, press Menu to cycle through the following information:<br>• VCPs status: Up or Down<br>Display the status of VCPs on the Virtual Chassis module installed on the front panel followed by the status of VCPs on the Virtual Chassis module installed on the rear panel of the switch.<br>• Power supply status: OK, Failed, or Absent.<br>• Fan status and Temperature status.<br>  • Fan status: OK, Failed, or Absent<br>  • Temp status: OK, High, or Shutdown<br>• Junos OS version for EX Series switches loaded on the switch.<br>• EXIT STAT MENU?<br>Choose one of the following:<br>  • Press Enter to exit the Status menu and go to the Maintenance Menu.<br>  • Press Menu to display the status of the VCPs again.<br>You can disable the Status menu or the options in the Status menu in the LCD panel. See Configuring the LCD Panel on EX Series Switches (CLI Procedure). |
| MAINT (Maintenance Menu) | The Maintenance menu has the following options to configure and troubleshoot the switch:<br>• SYSTEM HALT?—Choose one of the following:<br>  • Press Enter to halt the switch. Press Enter again to confirm the halt.<br>  • Press Menu to go to the next option in the Maintenance menu.<br>• SYSTEM REBOOT?—Choose one of the following: |

- Press Enter to reboot the switch. Press Enter again to confirm the reboot.
- Press Menu to go to the next option in the Maintenance menu.

- LOAD RESCUE?—Choose one of the following:
  - Press Enter to roll back the switch to the previous valid configuration. Press Enter again to confirm the rollback.
  - Press Menu to go to the next option in the Maintenance menu.
- REQUEST VC PORT?—Choose one of the following:
  - Press the Enter button to configure an expansion module port or a network port to be a VCP or to delete a VCP from the switch configuration (when you delete the VCP, the port is reset to an expansion module port or network port).
  - Press the Menu button to go to the next option in the Maintenance menu.
- FACTORY DEFAULT?—Choose one of the following:
  - Press Enter to restore the switch to the factory default configuration. Press Enter again to confirm the restoration. The LCD panel flashes a success or failure message, after which it displays the Idle menu.
  - Press Menu to go to the next option in the Maintenance menu.
- ENTER EZSETUP?—Choose one of the following:
  - Press Enter to launch EZSetup. Press Enter again to confirm the launch.
    EZSetup configures DHCP and enables the J-Web user interface on the switch. The LCD panel flashes a success or failure message for approximately 10 seconds, after which it displays the Idle menu.
    Note: You can use EZSetup only on a standalone switch that is in the factory default configuration.
    For information about EZSetup, see Connecting and Configuring an EX Series Switch (J-Web Procedure).
  - Press Menu to go to the next option in the Maintenance menu.
- EXIT MAINT MENU?—Choose one of the following:
  - Press Enter to exit the Maintenance menu.
  - Press Menu to return to the SYSTEM HALT? option.

You can disable the Maintenance menu or the options in the Maintenance menu in the LCD panel. See Configuring the LCD Panel on EX Series Switches (CLI Procedure).

SEE ALSO

- Configuring the LCD Panel on EX Series Switches (CLI Procedure)

## Expansion Modules in EX4550 Switches

EX4550 switches support three optional expansion modules—an 8-port 10-Gigabit SFP+ expansion module, an 8-port 10GBASE-T expansion module, and a 2-port 40-Gigabit QSFP+ expansion module. Expansion modules are hot-insertable and hot-removable field replaceable units (FRUs).

Table 3 lists the names of the expansion modules and the model numbers, a short description of the modules, and the first Junos OS release each module supports.

Table 3: Expansion Modules in EX4550 Switches

| Uplink Module Name | Model Number | Description | First Junos OS Release |
|---|---|---|---|
| 8-port SFP+ expansion module | EX4550-EM-8XSFP | An SFP+ expansion module can house up to eight 10-gigabit SFP+ transceivers or these 1-gigabit SFP transceivers or in any combination of SFP and SFP+ transceivers. You can use the ports on the expansion module to connect the switch to other devices. You can also configure these ports as Virtual Chassis ports (VCPs) and use them to connect the switch in a Virtual Chassis configuration. | 12.2R1 |
| 8-port 10GBASE-T expansion module | EX4550-EM-8XT | A 10GBASE-T expansion module can house up to eight 100-Megabit, 1-Gigabit, or 10-Gigabit BASE-T Ethernet connectors. You can use the ports on the expansion module to connect the switch to other devices. You can also configure these ports as VCPs and use them to interconnect EX4550 switches in an Virtual Chassis configuration. | 12.2R4 |

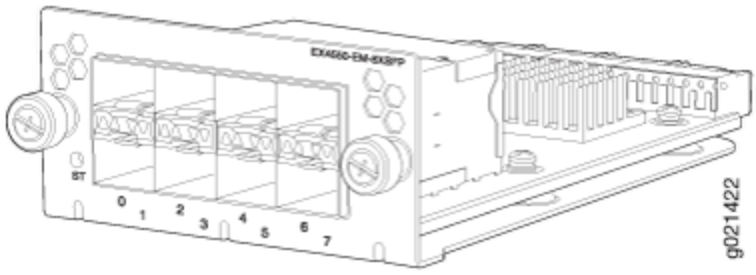
| Uplink Module Name | Model Number | Description | First Junos OS Release |
|---|---|---|---|
| 2-port 40-Gigabit QSFP+ expansion module | EX4550-EM-2QSFP | A QSFP+ expansion module can house up to two 40-Gigabit QSFP+ transceivers. You can use the ports on the expansion module to connect the switch to other devices. You can also configure these ports as Virtual Chassis ports (VCPs) and use them to interconnect EX4550 switches in a Virtual Chassis configuration. | 13.2X50-D10<br><br>Note: Starting with Release 13.2X50-D15, you can configure QSFP+ ports as VCPs. |

NOTE Expansion modules and transceivers are not part of the EX4550 switch shipping configuration. You must order them separately.

You can install up to two expansion modules in an EX4550 switch—one in each of the module slots on the front panel and the rear panel of the switch. By installing an expansion module, you add more ports to your switch, thereby increasing the port density of the switch. You can also use the ports on the expansion module to connect the switch to core devices or to connect an access switch to a distribution switch. Besides, you can configure these ports as Virtual Chassis ports (VCPs) and use them to connect the switch in a Virtual Chassis configuration.

Figure 2 shows the SFP+ expansion module.

Figure 2: 8-Port SFP+ Expansion Module




The SFP+ expansion module can operate either in 10-gigabit or in 1-gigabit mode. The operating mode for an SFP+ expansion module is shown in the output of the `show chassis pic fpc-slot` *`slot number`* `pic-slot` *`slot number`* command.

Figure 3 shows the 10GBASE-T expansion module.

Figure 3: 8-Port 10GBASE-T Expansion Module

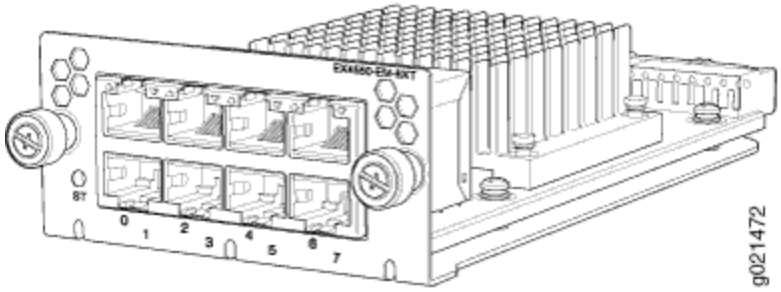
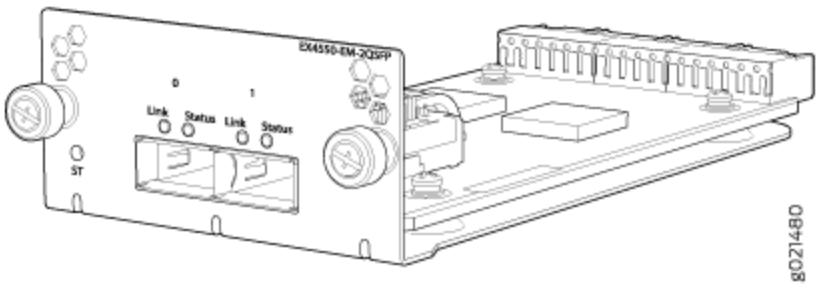



Figure 4 shows the QSFP+ expansion module.

Figure 4: 2-Port QSFP+ Expansion Module

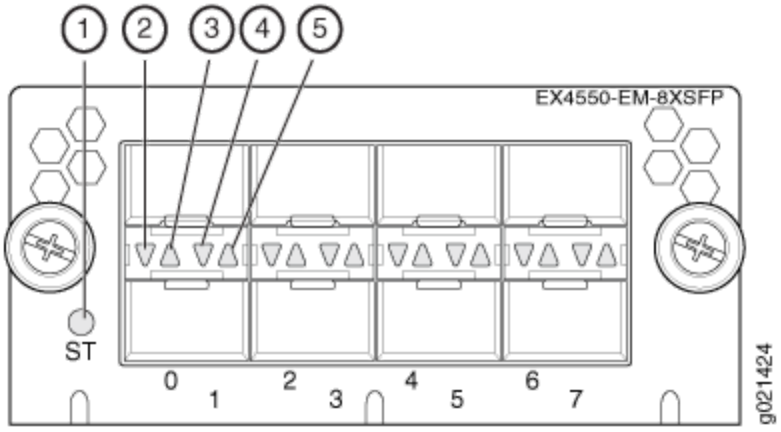



NOTE When you install an expansion module in the switch or replace an expansion module with another expansion module, the switch detects the ports on the expansion module. The switch creates the required interfaces when transceivers are installed in these ports.

Each expansion module has an LED on the faceplate (labeled ST). It indicates the status of the expansion module.

Figure 5 shows the location of LEDs on the SFP+ expansion module.

Figure 5: LEDs on an SFP+ Expansion Module




1 — Status LED of the expansion module

4 — Status lower port

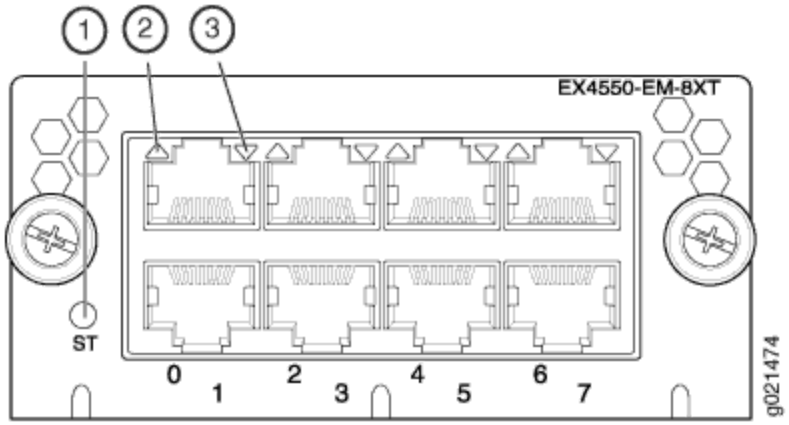
2 — Link/Activity lower port

5 — Status upper port

3 — Link/Activity upper port

Figure 6 shows the location of LEDs on the 10GBASE-T expansion module.

Figure 6: LEDs on a 10GBASE-T Expansion Module



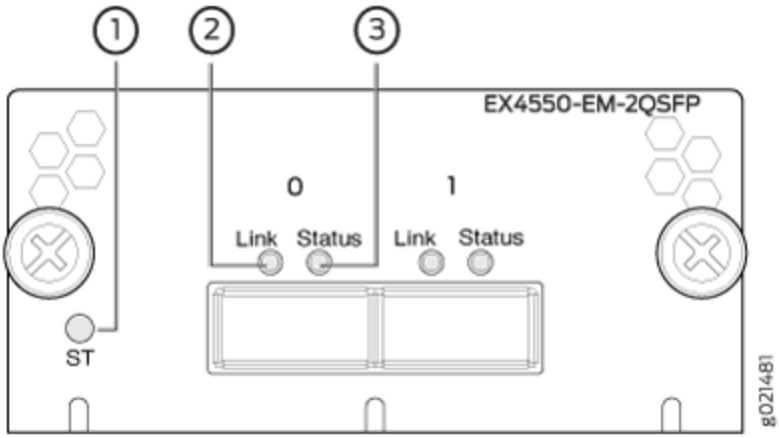

1 — Status LED of the expansion module

3 — Link/Activity lower port

2 — Link/Activity upper port

Figure 7 shows the location of LEDs on the QSFP+ expansion module.

Figure 7: LEDs on a QSFP+ Expansion Module




1 — Status LED of the expansion module

3 — Port's Status LED

2 — Port's Link/Activity LED

Each SFP+ expansion module port and QSFP+ expansion module port has a pair of LEDs that indicate the link activity and status of the port and each 10GBASE-T expansion module port has an LED that indicates the link

activity of the port.

Table 4 describes the Status LED on the expansion modules.

Table 4: Expansion Module Status LED

| LED | State | Description |
|---|---|---|
| ST | Unlit | • The expansion module is offline.<br>• The chassis is powered off. |
| | Green | • The expansion module is online and functioning normally. |

See Network Port and Expansion Module Port LEDs in EX4550 Switches for details about the status and link activity LEDs.

SFP+ expansion modules and QSFP+ expansion modules are shipped with dust covers preinstalled in the ports.

SEE ALSO

- SFP+ Direct Attach Copper Cables for EX Series Switches
- Installing an Expansion Module in an EX4550 Switch
- Interfaces Overview for Switches

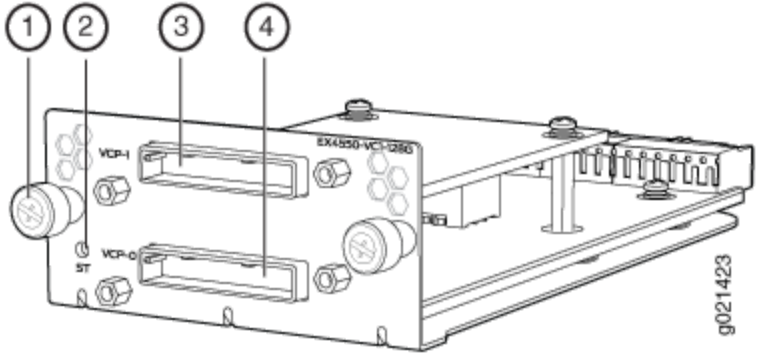
## Virtual Chassis Module in EX4550 Switches

EX4550 switches support an optional 128-Gigabit Virtual Chassis module. The Virtual Chassis module is a hot-insertable and hot-removable field replaceable unit (FRU). You can install Virtual Chassis modules in the module slots on the front panel and the rear panel of an EX4550 switch chassis.

The Virtual Chassis module has two dedicated Virtual Chassis ports (VCPs), using which you can interconnect the EX4550 switch to an EX4200, EX4500, or EX4550 switch in a Virtual Chassis configuration.

Figure 8 shows the Virtual Chassis module.

Figure 8: Virtual Chassis Module




| | |
|---|---|
| 1 — Captive screw | 3 — Virtual Chassis Port 1 (VCP-1) |
| 2 — Status LED of Virtual Chassis module | 4 — Virtual Chassis Port 0 (VCP-0) |

VCPs of the Virtual Chassis module installed in the module slot on the front panel of the chassis are displayed as `VCP-1/0` and `VCP-1/1` in the CLI. VCPs of the Virtual Chassis module installed in the module slot on the rear panel of the chassis are displayed as `VCP-2/0` and `VCP-2/1` in the CLI. A `255` appears in the interface name if this dedicated VCP is part of a *link aggregation group (LAG)* bundle; for instance, a display of `VCP-255/1/0` indicates that `VCP-1/0` is part of a LAG.

**NOTE** Installing the Virtual Chassis module is not mandatory for using an EX4550 switch in a Virtual Chassis configuration. You can also interconnect EX4550 switches or connect EX4550 switches to EX4200 switches and EX4500 switches through SFP+ expansion module ports or SFP+ network ports configured as VCPs to form a Virtual Chassis. You can also configure 10GBASE-T network ports, 10GBASE-T expansion module ports, or QSFP+ expansion module ports as VCPs to interconnect EX4550 switches in a Virtual Chassis.

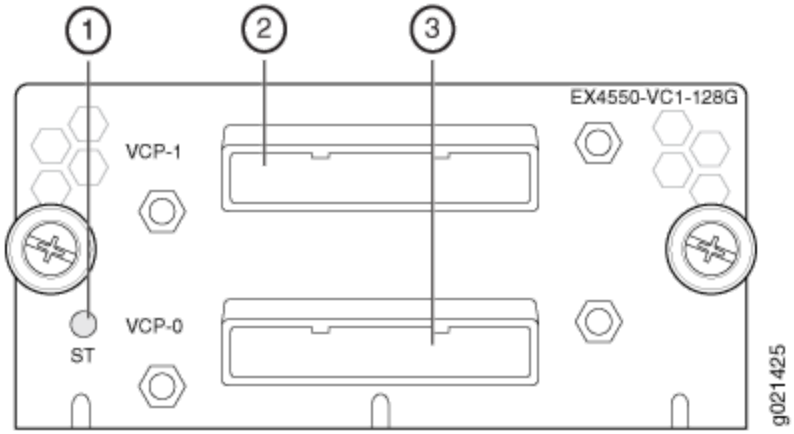
**NOTE** Virtual Chassis module, Virtual Chassis cables, and Virtual Chassis cable connector retainers are not part of the EX4550 switch shipping configuration. If you want to purchase these, you must order them separately.

The Virtual Chassis module supports the following Virtual Chassis cables:

- EX-CBL-VCP-50CM
- EX-CBL-VCP-1M
- EX-CBL-VCP-3M
- EX-CBL-VCP-5M

The Virtual Chassis module has an LED (labeled `ST`) on the left side of its faceplate. It indicates the status of the Virtual Chassis module. See Figure 9.

Figure 9: Virtual Chassis Module LED




1 — Status LED of Virtual Chassis module

2 — Virtual Chassis Port 1 (VCP-1)

3 — Virtual Chassis Port 0 (VCP-0)

Table 5 describes the Status LED on the Virtual Chassis module in an EX4550 switch.

Table 5: Virtual Chassis Module LED

| LED | State | Description |
|---|---|---|
| ST | Green | The Virtual Chassis module is functioning normally. |
| | Unlit | One of the following:<br>• The Virtual Chassis module is not functioning normally.<br>• The switch has been powered off. |

The Virtual Chassis module has two captive screws on the faceplate that secure the module to the switch chassis. To remove or replace the Virtual Chassis module, follow the instructions in Removing a Virtual Chassis Module from an EX4550 Switch.

SEE ALSO

- Installing a Virtual Chassis Module in an EX4550 Switch

## Chassis Status LEDs in EX4550 Switches

The front panel of an EX4550 switch has three chassis status LEDs (labeled ALM, SYS, and MST) on the far right side of the panel, next to the Menu and Enter buttons (see Figure 10).

Figure 10: Chassis Status LEDs in an EX4550 Switch

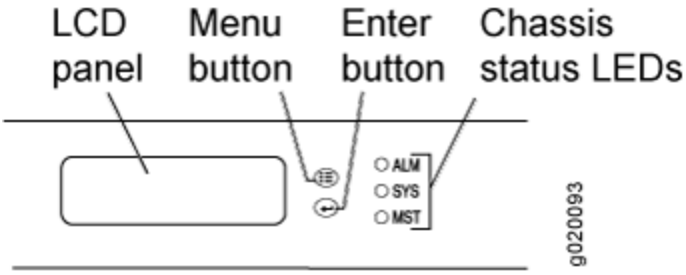



Table 6 describes the chassis status LEDs in an EX4550 switch, their colors and states, and the status they indicate. You can view the colors of the three LEDs remotely through the CLI by issuing the operational mode command `show chassis led`.

Table 6: Chassis Status LEDs in an EX4550 Switch

| LED Label | Color | State and Description |
|---|---|---|
| `ALM` (Alarm) | Unlit | There is no alarm or the switch is halted. |
| | Red | There is a major alarm. |
| | Yellow | There is a minor alarm. |
| `SYS` (System) | Green | • On steadily—Junos OS for EX Series switches has been loaded on the switch.<br>• Blinking—The switch is booting.<br>• Off—The switch is powered off or is halted. |

| LED Label | Color | State and Description |
|---|---|---|
| MST (Primary) | Green | In a standalone EX4550 switch:<br>• On steadily—The switch is functioning normally as primary.<br>• Off—The switch is powered off or is halted.<br>In a Virtual Chassis configuration:<br>• On steadily—The switch is the primary in the Virtual Chassis configuration.<br>• Blinking—The switch is the backup in the Virtual Chassis configuration.<br>• Off—The switch is a linecard member in the Virtual Chassis configuration or is halted. |

A major alarm (red) indicates a critical error condition that requires immediate action.

A minor alarm (yellow) indicates a noncritical condition that requires monitoring or maintenance. A minor alarm that is left unchecked might cause interruption in service or performance degradation.

All three LEDs can be lit simultaneously.

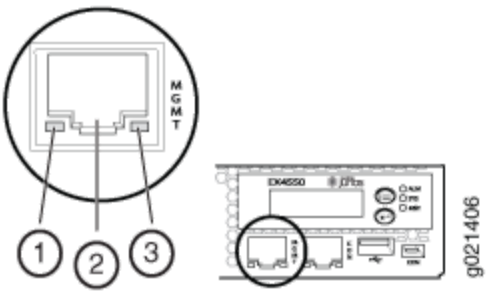
SEE ALSO

- Check Active Alarms with the J-Web Interface
- Understand Alarm Types and Severity Levels on EX Series Switches

## Management Port LEDs in EX4550 Switches

The management port, which is on the front panel of an EX4550 switch, has two LEDs that indicate link activity and status of the management port (see Figure 11).

Figure 11: LEDs on the Management Port on an EX4550 Switch




1 — Link/Activity LED

3 — Status LED

2 — Management port

Table 7 describes the Link/Activity LED.

Table 7: Link/Activity LED on the Management Port on an EX4550 Switch

| LED | Color | State and Description |
|---|---|---|
| Link/Activity | Green | • Blinking—The port and the link are active, and there is link activity.<br>• On steadily—The port and the link are active, but there is no link activity.<br>• Off—The port is not active. |

Table 8 describes the Status LED.

Table 8: Status LED on the Management Port on an EX4550 Switch

| LED | Color | State and Description |
|---|---|---|
| Status | Green | Indicates the speed. The speed indications are:<br>• One blink per second—10 Mbps<br>• Two blinks per second—100 Mbps<br>• Three blinks per second—1000 Mbps |

SEE ALSO

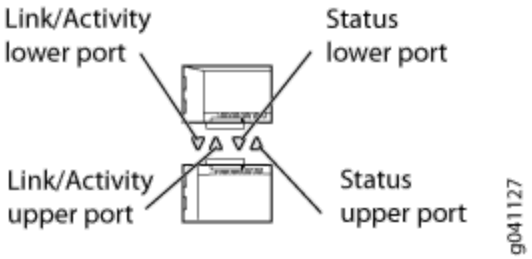
- Connect a Device to a Network for Out-of-Band Management

## Network Port and Expansion Module Port LEDs in EX4550 Switches

The figures in this topic show the LEDs on the 10-Gigabit SFP+ network and expansion module ports, 10GBASE-T Ethernet network and expansion module ports, and QSFP+ expansion module ports.

Figure 12 shows the LEDs on the SFP+ network ports and SFP+ expansion module ports of an EX4550 switch.

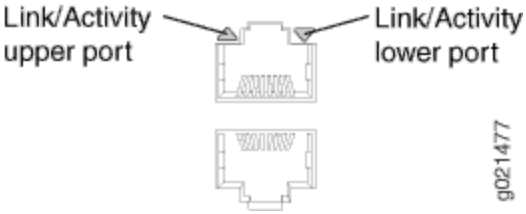
Figure 12: SFP+ Network Port and SFP+ Expansion Module Port LEDs




Each SFP+ network port and SFP+ expansion module port has two LEDs that indicate link activity and status of the network ports and the expansion module ports. Each LED is shaped to point toward the port for which it displays link activity and status.

Figure 13 shows the LEDs on the 10GBASE-T Ethernet network ports and the 10GBASE-T expansion module ports of an EX4550 switch.

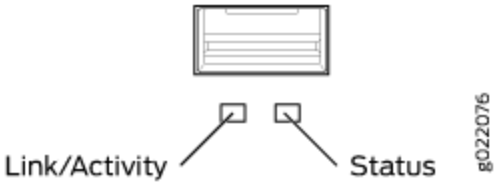
Figure 13: 10GBASE-T Ethernet Network Port and 10GBASE-T Expansion Module Port LEDs




Each 10GBASE-T Ethernet network port and 10GBASE-T expansion module port has an LED that indicate the link activity of the port. Each LED is shaped to point toward the port for which it displays the link activity.

Figure 14 shows the LEDs on the QSFP+ expansion module ports of an EX4550 switch.

Figure 14: QSFP+ Expansion Module Port LEDs




Each QSFP+ expansion module port has two LEDs that indicate link activity and status of the expansion module ports.

The following tables in this topic describes the behavior of link activity and status LEDs of network ports and expansion module ports in EX4550 switches:

- Table 9 describes the Link/Activity LED.
- Table 10 describes the Status LED on SFP+ network ports and SFP+ expansion module ports.
- Table 11 describes the Status LED on QSFP+ expansion module ports.

Table 9: Link/Activity LED on Network Ports and Expansion Module Ports

| LED | Color | State and Description |
|---|---|---|
| Link/Activity | Green | • Blinking—The port and the link are active, and there is link activity.<br>• On steadily—The port and the link are active, but there is no link activity.<br>• Off—The port is not active. |

NOTE You must configure medium-dependent interface (MDI) properties for a 10-gigabit Ethernet interface on 10GBASE-T network ports and 10GBASE-T expansion module ports to ensure that both sides of the link are compatible. For information about MDI properties, see mdi-mode.

NOTE To configure 100-Mbps speed for an interface on a 10GBASE-T port, you must disable the `auto-negotiation` mode and set the `speed` to `100m` for the interface. Such 10GBASE-T ports cannot read 10-gigabit interfaces and 1-gigabit interfaces until you manually reset `auto-negotiation` and `speed` of the port to *auto*.

The LEDs labeled Status in Figure 12 indicate the status of one of the three port parameters. The port parameters are administrative status, duplex mode, and speed.

Table 10 describes the Status LED on SFP+ network ports and SFP+ expansion module ports in EX4550 switches. From the Idle menu of the LCD panel, use the Enter button on the LCD panel to toggle between the ADM, DPX, and SPD indicators.

Table 10: Status LED on SFP+ Network Ports and Expansion Module Ports

| LED | LCD Indicator | State and Description |
|---|---|---|
| Status | LED: ADM | Indicates the administrative status (enabled or disabled).<br><br>The status indicators are:<br><br>• Green—Port is administratively enabled.<br>• Unlit—Port is administratively disabled. |

| LED | LCD Indicator | State and Description |
|---|---|---|
| | LED: DPX | Indicates the duplex mode.<br><br>The status indicators for network ports on the front panel are:<br><br>• Green—Port is set to full-duplex mode.<br>• Unlit—Port is set to half-duplex mode.<br><br>The expansion module ports are always set to full-duplex mode; therefore, this LED is always lit green on an expansion module. |
| | LED: SPD | Indicates the speed.<br><br>The speed indicators are:<br><br>• Blinking green—1 Gbps<br>• Steadily green—10 Gbps |

The LEDs labeled Status in Figure 14 indicate the status of the QSFP+ port. Table 11 describes the Status LED of QSFP+ expansion module ports in EX4550 switches.

Table 11: Status LED on QSFP+ Expansion Module Ports

| LED | LED Color | State and Description |
|---|---|---|
| Status | Green | Indicates the status (enable or disable) of the port:<br><br>• Green—The port is up.<br>• Unlit—The port is down. |

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