

## Installing a Line Card in an EX 8200 series Switch

EX 8200 series switches have field-replaceable unit (FRU) line cards that can be installed in the line card slots on the front of the switch chassis. The line cards are hot-insertable and hot-removable: You can remove and replace them without powering off the switch or disrupting switch functions.

Before you begin installing a line card in an EX 8200 series switch:

- Ensure that you have taken the necessary precautions to prevent ESD damage (see Prevention of Electrostatic Discharge Damage on EX-series Switches).
- If there are any transceivers installed in the line card, remove them before you install the line card. For instructions on removing transceivers, see Removing a Transceiver from an EX-series Switch.
- Ensure that you know how to handle and store the line card (see Handling and Storing Line Cards in EX 8200 series Switches).

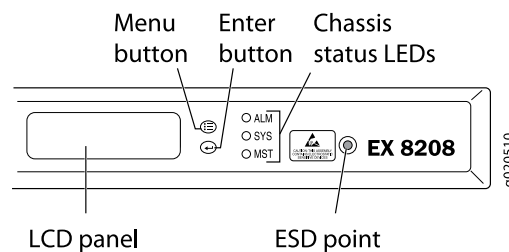
Ensure that you have the following parts and tools available to install a line card in an EX 8200 series switch chassis:

- Electrostatic discharge (ESD) grounding strap
- Phillips (+) screwdriver, number 2

To install a line card in an EX 8200 series switch (see Figure 2):

1. Attach the electrostatic discharge (ESD) grounding strap to your bare wrist and connect the strap to the ESD point on the switch chassis (see Figure 1). The ESD point is at the same location on EX 8208 and EX 8216 switches.

**Figure 1: Location of the ESD Point on an EX 8200 series Switch Chassis**



2. If the line card slot has a cover panel on it, use the Phillips (+) screwdriver, number 2 to remove the captive screws on each side of the cover panel. Save the cover panel and the screws for later use.



**CAUTION:** Do not lift the line card by holding the ejector levers on the faceplate or the edge connectors. The levers cannot support the weight of the line card. Lifting the line cards by the levers might bend them. Bent levers prevent the line cards from being properly seated in the chassis.

3. Taking care not to touch line card components, pins, leads, or solder connections, remove the line card from its bag.
4. Grasp the ejector levers on the faceplate of the line card and pull them outward until they are fully open.



**CAUTION:** Before you slide the line card into the slot on the switch chassis, ensure the line card is aligned correctly. Misalignment might cause the pins to bend, making the line card unusable.

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5. Place one hand around the faceplate of the line card and the other hand under the line card to support it.



**CAUTION:** The line cards in EX 8200 series switches weigh more than 10 lb (4.5 kg). Be prepared to accept the full weight as you slide the line card into the chassis.

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6. Lift the line card, and position it in the chassis with the faceplate facing you and the sides of the line card aligned with the guides in the line card slot on the switch chassis.
  7. Using both hands, gently slide the line card into the slot until it is fully seated.



**NOTE:** You might need to lift the line card slightly to seat it correctly in the slot.

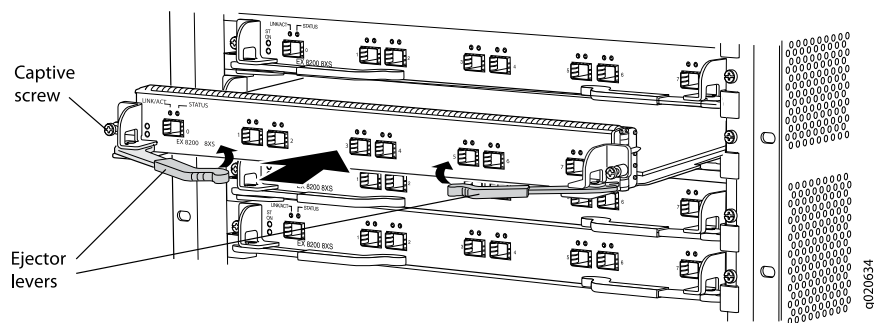
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8. Grasp the ejector levers on the line card and push them inward simultaneously until the line card is fully seated. When the ON LED turns green, the line card is ready for use.



**CAUTION:** After the ON LED turns green, wait for at least 30 seconds before installing another line card or removing a line card.

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9. Tighten the captive screws on the faceplate of the line card by using the Phillips (+) screwdriver, number 2.

**Figure 2: Installing a Line Card in an EX 8200 series Switch Chassis**



You can verify that the line card is functioning correctly by issuing the `show chassis fpc` and `show chassis fpc pic-status` commands.



**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/csc/management/updateinstallbase.jsp>. Failure to do so can result in significant delays if you need replacement parts. This note applies if you change the type of line card. It does not apply if you replace these components with the same type of component.

- Related Topics**
- Removing a Line Card from an EX 8200 series Switch
  - Installing a Transceiver in an EX-series Switch
  - 48-port RJ-45 Line Card in an EX 8200 series Switch
  - 48-port SFP Line Card in an EX 8200 series Switch
  - 8-port SFP + Line Card in an EX 8200 series Switch
  - Field-Replaceable Units in an EX 8208 Switch
  - Field-Replaceable Units in an EX 8216 Switch

