Installing and Replacing Transceivers and DAC Cables in Check Point Security Appliances

Important

• Read the Health and Safety Information in the Getting Started guide for your Security Appliance. For a list of all Security Appliance Getting Started guides, see sk96246 http://supportcontent.checkpoint.com/solutions?id=sk96246.

• To protect the Security Appliance and transceivers from electrostatic discharge, make sure that you are grounded.

• We recommend that you use an ESD grounding wrist strap. Connect the grounding plug on the wrist strap to the chassis grounding point.

Line cards with fiber optic ports use transceivers.

For a list of supported transceivers that you can install and replace, see:

• 5000, 6000, 15000, and 23000 Series Security Appliances

  Note - Check Point Security Appliances only support transceivers sold by Check Point.

  Note - You can use a mixed configuration of 1GbE copper and 1GbE fiber optic transceivers with the 1GbE SFP card.

  Note - To support 25GbE on the 100/25GbE card, you must use the 25GbE Adapter (CPAC-TR-QSFP28-SFP28) in conjunction with the 25GbE transceiver.
Note - To support the DAC cables on CPAC-2-40F-B, you may need to update the firmware on the card, see sk116858 http://supportcontent.checkpoint.com/solutions?id=sk116858.

Laser Safety Warnings

CLASS 1 LASER PRODUCT. A TOTALLY ENCLOSED LASER SYSTEM CONTAINING A CLASS 1 LASER.

Caution - When laser products (such as fiber optic devices or transmitters) are installed:

- Do not remove the covers. If you remove the covers of the laser product, you can be exposed to hazardous laser radiation.
- Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.
- There are no serviceable parts inside the device.
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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>Line card with fiber optic ports</td>
</tr>
<tr>
<td>2</td>
<td>Transceiver</td>
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<tr>
<td>3</td>
<td>Transceiver latch (in 10GbE SFP+ and 1GbE SFP line cards)</td>
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<tr>
<td></td>
<td>Rubber pull tab (in 100GbE QSFP28 and 40GbE QSFP+ line cards)</td>
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This illustration shows a two port line card.

**To remove a transceiver:**

1. Disconnect the fiber optic cables from the transceiver.
2. In 10GbE SFP+ and 1GbE SFP line cards: Pull the latch lever down to release the transceiver.
   - In 100GbE QSFP28 and 40GbE QSFP+ line cards: Pull the rubber pull tab to release the transceiver.
3. Gently, pull the transceiver out of the line card.

**To install a transceiver:**

1. In all line cards: Push the transceiver into a line card port, until it snaps into position.
2. In 10GbE SFP+, 1GbE SFP line cards: Turn the transceiver latch lever up to lock into the line card.
3. Connect the fiber optic cable to the transceiver.
Installing and Removing the 25GbE Transceiver from the Adapter

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<td>Adapter opening</td>
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<tr>
<td>2</td>
<td>Transceiver</td>
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<tr>
<td>3</td>
<td>Rubber pull tab for transceiver</td>
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<tr>
<td>4</td>
<td>Rubber pull tab for adapter</td>
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</tbody>
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**Note** - These procedures only apply to the 25/100G (CPAC-2-100/25F-B) card
To install a 25GbE transceiver into the adapter:

1. Align the transceiver with the adapter opening.
2. Push the transceiver into the adapter until it snaps into position.

To remove the 25GbE transceiver from the adapter:

1. Disconnect the fiber optic cables from the transceiver.
2. Pull the transceiver’s rubber pull tab (item 3 in the illustration) to release the transceiver from the adapter.

Installing and removing the DAC Cables

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>1</td>
<td>Module</td>
</tr>
<tr>
<td>2</td>
<td>Rubber pull-release tab for Module</td>
</tr>
<tr>
<td>3</td>
<td>DAC cable</td>
</tr>
</tbody>
</table>
To install a 10GbE SFP+ or 40GbE QSFP+ DAC Cable

1. Remove the DAC Cable from its antistatic container and remove the dust covers from the connector.
2. Align the 10GbE SPF+ or 40GbE QSPF+ DAC module with the I/O port on the NIC.
3. Gently push in the module straight until it clicks to fully seat it in the port.

To remove a 10GbE SFP+ or 40GbE QSFP+ DAC Cable

1. Hold the cable.
2. Gently pull the tab on the cable to pull out the transceiver module.