INSTALLING AND REPLACING TRANSCEIVERS AND DAC CABLES
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Important Information

**Latest Software**
We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

**Certifications**
For third party independent certification of Check Point products, see the [Check Point Certifications page](#).

**Latest Version of this Document in English**
Download the latest version of this document in [PDF format](#).

**Feedback**
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**Revision History**

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<tr>
<td>30 August 2021</td>
<td>Updated for TE2000XN appliances</td>
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<td>First release of this document</td>
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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](#).
- 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.

For a list of supported transceivers that you can install and replace, see [sk92755](#):

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

**Note** - You can use a mixed configuration of 10GbE copper and 10GbE fiber optic transceivers with the 10GbE SFP+ card.

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

**Note** - To support the 25GbE SFP28 transceiver module in the QSFP slot, you must use the 10/25GbE Adapter (CPAC-TR-QSFP28-SFP28) in conjunction with the 25GbE SFP28 transceiver module.

**Note** - To support the 10GbE SFP+ transceiver module in the QSFP slot, you must use the 10/25GbE Adapter (CPAC-TR-QSFP28-SFP28) in conjunction with the 10GbE SFP+ transceiver module.

**Note** - To support the DAC cables on CPAC-2-40F-B/CPAC-2-40F-C, you may need to update the firmware on the card, see [sk116742](#).

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.
Replacing Transceivers

This illustration shows a two port line card.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Line card with fiber optic ports</td>
</tr>
<tr>
<td>2</td>
<td>Transceiver</td>
</tr>
</tbody>
</table>
| 3    | Transceiver latch (in 10GbE SFP+ and 1GbE SFP line cards)  
Rubber pull tab (in 100GbE QSFP28 and 40GbE QSFP+ line cards) |

**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: Remove the transceiver from its antistatic container and remove the dust covers from the connector.  
2. In all line cards: Push the transceiver into a line card port, until it snaps into position.  
3. In 10GbE SFP+, 1GbE SFP line cards: Turn the transceiver latch lever up to lock into the line card.  
4. Connect the fiber optic cable to the transceiver.
Installing and Removing the 25GbE SFP+ Transceiver from the QSFP Adapter

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adapter opening</td>
</tr>
<tr>
<td>2</td>
<td>Transceiver</td>
</tr>
<tr>
<td>3</td>
<td>Rubber pull tab for transceiver</td>
</tr>
<tr>
<td>4</td>
<td>Rubber pull tab for adapter</td>
</tr>
</tbody>
</table>

**To install a 25GbE transceiver into the adapter:**
1. Remove the transceiver from its antistatic container and remove the dust covers from the connector.
2. Align the transceiver with the adapter opening.
3. 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 10GbE SFP+ Transceiver from the QSFP Adapter

To install a 10GbE transceiver into the QSFP adapter:
1. Remove the transceiver from its antistatic container and remove the dust covers from the connector.
2. Align the transceiver with the adapter opening.
3. Push the transceiver into the adapter until it snaps into position.

To remove the 10GbE transceiver from the QSFP adapter:
1. Disconnect the fiber optic cables from the transceiver.
2. Flip the 10GbE transceiver’s metal pull-tab down and pull on it to remove the transceiver from the adapter.

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>1</td>
<td>QSFP to SFP adapter</td>
</tr>
<tr>
<td>2</td>
<td>QSFP to SFP adapter pull tab</td>
</tr>
<tr>
<td>3</td>
<td>10GbE transceiver metal pull tab</td>
</tr>
</tbody>
</table>
Installing and removing the DAC Cables

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<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>

**Note** - These procedures only apply to these DAC cables:

- 10GbE SFP+
- 40GbE QSFP+
- 100GbE QSFP28
- 25GbE SFP28

**To install a DAC cable:**

1. Remove the DAC Cable from its antistatic container and remove the dust covers from the connector.
2. Align the 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 DAC cable:**

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