Check Point 4000 and TE250 Appliances Installing and Removing Memory

Important - We recommend that only experienced personnel install or remove hardware components. Installing or removing components incorrectly can permanently damage the appliance.

Preparing the Appliance

Before you start to install or remove memory DIMMs, make sure that:

- You can connect to the WebUI or CLI to shut down the appliance.
- The appliance is in a clean environment and on a level surface.
- You can physically access and open the cover of the appliance.
- You have the Check Point memory DIMM upgrade kit.
Important - To protect the appliance and the memory modules from electrostatic discharge damage, make sure that you are properly grounded before you touch these components. Read the Health and Safety Information in the Check Point 4000 Appliances Getting Started Guide before you start to prepare the appliance.

We recommend that you use the grounding wrist strap that is included in the upgrade kit. The grounding plug on the rear of the appliance provides a chassis grounding point.

Upgrade Kit Contents

- Installation guide - Check Point 4000 and TE250 Appliances Installing and Removing Memory
- Memory DIMMs
- Screwdriver
- Upgrade kit sticker
- ESD grounding strap (anti-static)

To prepare the appliance:
1. Put on the ESD strap and attach the other end to a grounding point.
2. Use the power switch to turn off power to the appliance.
3. Remove the power cords from the appliance.
4. Remove the warranty sticker from the appliance cover screw.
5. Remove the appliance cover screws. Only use the screwdriver that is included in the upgrade kit to open and replace the appliance cover.
6. Remove the top cover from the appliance.
### Check Point 4200 Appliance

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appliance cover</td>
</tr>
<tr>
<td>2</td>
<td>Two appliance cover screws</td>
</tr>
</tbody>
</table>

### Check Point 4400 and 4600 Appliance

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appliance cover</td>
</tr>
<tr>
<td>2</td>
<td>Two appliance cover screws</td>
</tr>
</tbody>
</table>
Check Point 4800 and TE250 Appliance

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appliance cover</td>
</tr>
<tr>
<td>2</td>
<td>Four appliance cover screws</td>
</tr>
</tbody>
</table>
4200 Appliance DIMM Configuration

The default memory configuration for the 4200 appliance is two 2 GB DIMMs, one in the lower slot and one in the upper slot. There is a total RAM of 4 GB.

To upgrade a 4200 appliance to an 8 GB configuration:

1. Remove the two 2 GB DIMMs from the appliance.
2. Insert two new 4 GB DIMMs.

To replace a DIMM:

1. Remove the old DIMM from the appliance.
2. Insert the new one.

Installing 4200 Appliance Memory DIMMs

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rear Panel</td>
</tr>
<tr>
<td>2</td>
<td>Memory socket with two DIMM slots</td>
</tr>
<tr>
<td>3</td>
<td>CPU</td>
</tr>
</tbody>
</table>
To remove a memory DIMM from the appliance:

1. Find the DIMM memory socket on the system board.
   The basic memory configuration of the appliance ships with two 2 GB DIMMs installed.

2. Using your index fingers, press on the white retaining clips outward.

3. Remove the DIMM from the memory socket.
To insert memory DIMMs in the appliance:

1. Find the DIMM memory socket on the system board.
2. Align the DIMM diagonally to the lower memory socket.  
   **Note** - The top of the DIMM is smooth. The bottom edge has two different-length sets of contacts, which connect to the slots on the socket. Only touch the top of the DIMM. Pressing on other DIMM components can damage the hardware.
3. Firmly press down on the DIMM and lock it into the lower socket.
4. Repeat the previous steps for the second DIMM.
5. Make sure the DIMM is installed correctly.
   a) Replace the appliance cover without using the appliance cover screws.
   b) Connect the power cord to the appliance.
   c) Turn on the appliance.
   d) Make sure that the appliance starts correctly.
6. Use the appliance cover screws to secure the cover on the appliance.
4400, 4600, 4800 and TE250 DIMM Configuration

The 4400, 4600, and 4800 appliances have a default memory configuration of one 4 GB, with one DIMM in memory socket number 1.

The TE250 appliance has a default memory configuration of 8 GB, with two 4 GB DIMMs in memory sockets 1 and 2. Use the procedure to replace a DIMM when necessary.

You can upgrade the 4400, 4600, and 4800 appliances to 8 GB with the upgrade procedure below.
To upgrade to | Use DIMMs | Procedure | Slots
--- | --- | --- | ---
8 GB | 2 x 4 GB | Install one additional 4 GB DIMM | In blue memory socket number 2

Upgraded Configuration for 4400, 4600, and 4800 Appliances / Default Configuration for TE250 Appliance

Top View
(front panel of the 4400, 4600, 4800, and TE250 appliance is at the bottom of the diagram)
Installing 4400, 4600, 4800, and TE250 Memory DIMMs

To install memory DIMMs in the appliance:

1. Find the DIMM memory slots on the system board.
   The basic memory configuration of the 4400, 4600, and 4800 appliances ship with one DIMM installed.

2. Press on the two white retaining clips outward.

3. Align the new DIMM above the socket.
   Only touch the top corners of the DIMM. Pressing on the heat sink or other DIMM components can damage the hardware.

The top of the DIMM is smooth. The bottom edge has two different-length sets of contacts, which connect to the slots on the socket.

**WARNING!** - There are sharp metal parts in the appliance, like the heat sink fin and bracket, that can cause injury and damage the hardware.
4. Press the new DIMM into the socket until it clicks into position.

The retaining clips move into the lock position as you press the DIMM into position.

**Important** - Make sure that there are no leftover parts inside the appliance.

5. Make sure the DIMM(s) are installed correctly.
   a) Replace the appliance cover without using the appliance cover screws.
   b) Connect the power cords to the appliance.
   c) Turn on the appliance.
   d) Make sure that the LCD screen shows the appliance model (in relevant models with an LCD screen).

6. Use the appliance cover screws to secure the cover on the appliance.
Attaching the New Warranty Sticker

After you install one or more new DIMMs, attach the new warranty sticker on the appliance.

⚠️ **Important** - Failing to attach the new warranty sticker correctly will void the warranty of the appliance.

To attach the new warranty sticker:

1. Make sure that the appliance operates correctly.
2. Attach the new warranty sticker from the upgrade kit to the appliance.
   
   The warranty sticker covers an appliance cover screw.
3. Clearly write this information on the sticker:
   
   • Date of upgrade.
   • Current RAM memory and LOM card configuration of the appliance.