

aVIGILON NVR5-STD-2NDCPU Standard 2nd CPU Kit **Installation Guide**

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NVR5-STD-2NDCPU For NVR5 STD 16TB-64TB

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Kit

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Introduction

Avigilon provides an optional 2nd CPU kit for the NVR5 Standard. These kits provide all the components needed to add CPU redundancy to an NVR.

Part Number	Description
NVR5-STD-2NDCPU	NVR5 Standard 2nd CPU Kit

Important: A second power supply (NVR5-PSU-800W) is required in order to enable the 2nd CPU Kit in the NVR5 Standard system.

Confirm Package Contents

Confirm that the kit you are installing contains the following components:

- 2nd CPU Kit (NVR5-STD-2NDCPU):
 - 1 x Intel Xeon Silver 4309Y
 - 1 x R750xs Heat Sink Customer Kit
 - 2 × 8 GB 3200 Mhz DDR4 RDIMMs

Recommended Tools

The following tools are not included in the kit package, but are needed to complete the installation:

- Phillips #2 screwdriver
- Torx #T30 screwdriver
- · Wrist-grounding strap connected to the ground
- ESD Mat

Important: It is recommended that you always use an antistatic mat and antistatic strap while working on components inside the system.

Installing the NVR5 2nd CPU Kit

Note: If the NVR5 is an operating part of your security system, be aware that it must be shut down to complete this procedure.

Before starting to install the kit:

1. Turn off the NVR5, including all attached peripherals. Press the power button on the front panel, and wait for the light to stop blinking to indicate shutdown is complete.

WARNING — Opening or removing the system cover while the system is powered on may expose you to a risk of electric shock.

- 2. Disconnect the NVR5 from the electrical outlet and disconnect the peripherals.
- 3. Remove all network, power and peripheral cables from the NVR5.
- 4. If applicable, remove the NVR5 from the rack.

Important: Whenever you need to lift the system, get others to assist you. To avoid injury, do not attempt to lift the system by yourself.

Opening the Cover

1. At the top of the NVR5, unlock the latch release then lift and rotate the latch towards the back of the unit. The cover slides back and is released from the body.

Tip: Use a Phillips #2 screwdriver to remove the shipping screws before unlatching the cover if you are removing the cover of an NVR5 for the first time.



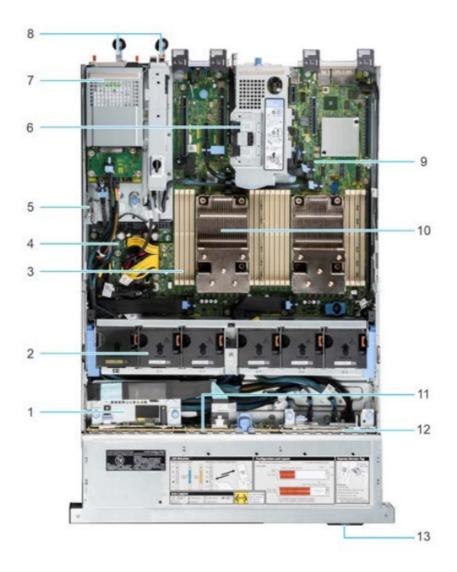
2. Remove the air shroud by holding it at both ends and lifting it away from the system.



3. View the interior of the NVR5 and identify the locations where the components of the kit will be installed. The view below shows the details of an NVR5 with all of the covers and cards removed, and important components labeled with numbers.

The components affected by the NVR5 Standard 2nd CPU Kit are:

- 3—Memory module The DIMMs in the kit are installed here.
- 10—CPU2 processor and heat sink module socket (with dust cover) The second CPU in the kit is installed here.



Note: The other components pointed out in the diagram are not affected by installing the NVR5 Standard 2nd CPU Kit.

Installing the CPU

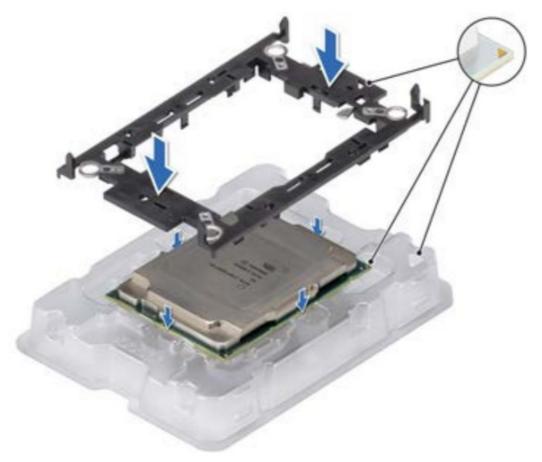
You need the processor bracket, processor (CPU), and heatsink provided in the kit to complete this procedure. With the NVR5 open and the protective cover removed:

- 1. Unpack the CPU.
- 2. Place the processor in the processor tray.

Note: Ensure that the pin 1 indicator on the processor tray is aligned with the pin 1 indicator on the processor.

3. Place the processor carrier on top of the processor that is in the processor tray aligning pin 1 indicator on the processor.

Note: Ensure that the pin 1 indicator on the bracket is aligned with the pin 1 indicator on the processor before carrier on the processor.



4. Align the processor with the processor carrier by using your fingers to press the carrier on all four sides until it clicks into place.

Note: Ensure that the processor is securely latched to the processor carrier.



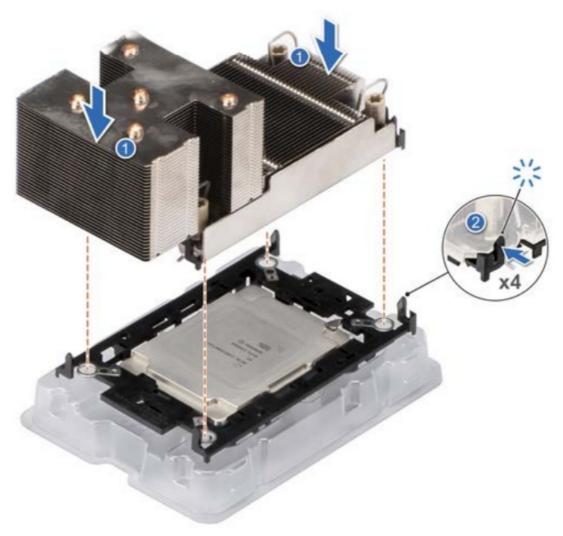
5. Unpack the heat sink and remove the protective film from the base of the heat sink. Be careful not to touch the thermal paste that is pre-applied to the bottom of the heat sink.



6. Place the heat sink on the processor and press the heat sink until the carrier locks onto the heat sink at all four corners.

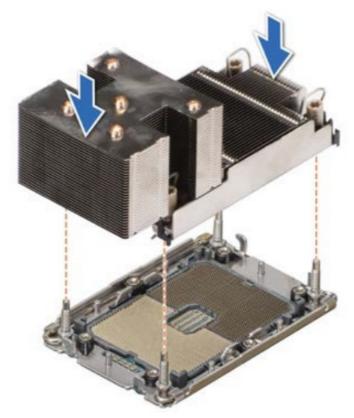
Important: To avoid damaging the fins on the heat sink, do not press down on the heat sink fins.

- Ensure that the pin 1 indicator on the heat sink is aligned with the pin 1 indicator on the carrier before placing the heat sink onto the processor carrier.
- Ensure latching features on processor carrier and heat sink are aligned during assembly.



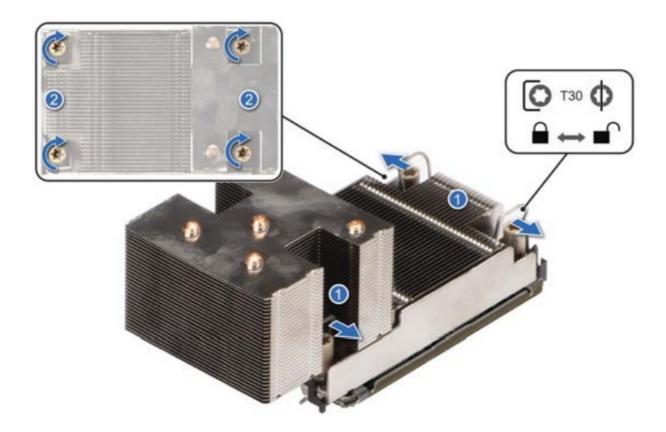
- 7. Locate the 2nd processor socket and pull off the CPU dust cover over the socket.
- 8. Align the pin 1 indicator of the processor heat sink module (PHM) to the system board and then place the processor heat sink module (PHM) on the processor socket.

Important: Ensure that the processor and heat sink module is held parallel to the system board to prevent damaging the components.



Important: Do not force the processor into the socket. The processor should slide easily into the socket when aligned correctly.

- 9. Set the anti-tilt wires to the locked position (outward position), and then use the star-shaped screwdriver #T30 to tighten the screws on the heat sink in the following order:
 - A a. In random order, tighten the first nut three turns.
 - b. Tighten the nut diagonally opposite to the nut you tighten first.
 - c. Tighten the nut diagonally opposite to the nut you tighten first.
 - d. Return to the first nut to tighten it completely.
 - e. Check all the nuts to ensure they are firmly secured.

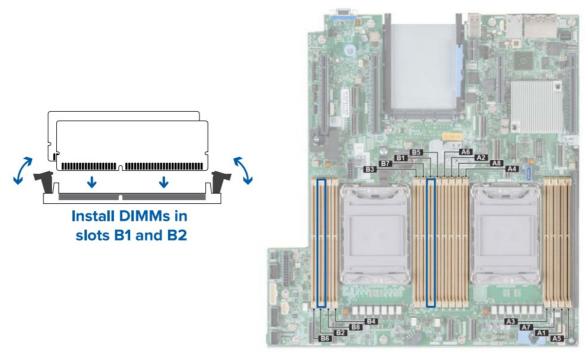


Important: Do not over-tighten or strip the screws.

Installing Additional RAM

Important: To prevent damage to the DIMM or memory module socket during installation:

- Do not bend or flex the DIMM.
- Handle each DIMM only by the edges to ensure that you don't touch the middle of the memory module or the metallic contacts.
- When installing a DIMM, apply pressure to both ends of the memory module evenly. Do not apply pressure to the middle.
- 1. In the row of empty memory sockets near the newly installed CPU, locate sockets B1 and B2.



- 2. Open the ejector clips on each side of the empty memory module sockets outward to allow the DIMMs to be inserted into the sockets.
- 3. Align the edge connector of the DIMMs with the alignment key of the sockets and press the DIMMs into the

sockets until the socket levers click into place.

Reattaching the Cover

When all the components of the kit have been installed:

- 1. Reinstall the top of the cooling shroud:
 - a. Align the slot on the air shroud with the standoff in the system.
 - b. Lower the air shroud into the system until it is firmly seated.



- 2. Close and lock the NVR5 cover.
- 3. If the NVR5 was rack mounted and removed to install the kit, remount it into the rack.
- 4. Reconnect all the peripherals and cables.

Important: Ensure that both of the power supplies are connected to the main power. The upgraded NVR5 requires both power supplies to properly function.

5. Power on the NVR5.

Confirming the Installation Verify the upgrade is successful:

- 1. Log in to the ACC Client on a workstation on the same network as the NVR5.
- 2. In the System Explorer, click Site Setup, and click Site to expand the site containing the upgraded NVR5.
- 3. Click to select the upgraded NVR5.
- 4. Verify that the NVR5 has 2 CPUs and 32 GB of memory installed.
 - a. In the System Explorer, select the upgraded NVR5 server.
 - b. In the New Task menu, **=** click Site Health.
 - c. Under the General Information heading, the sum of Memory usage and System Available Memory should be approximately 32 GB (~32,000 MB).
 - d. Under the Temperature Probes heading, you should see readings for CPU1 and CPU2.
- 5. Verify that the analytics load capacity has increased:
 - a. In the System Explorer, select the upgraded NVR5.

- b. In the New Task menu, click **Server Analytics**. For more information, see the Enabling Analytics topic in the ACC Client Help.
- c. The number of connected cameras should be the same as before the NVR5 was upgraded, and the analytics load should be about half of what it was prior to the upgrade.

Limited Warranty

Avigilon warranty terms for this product are provided at avigilon.com/warranty.

For More Information

For additional product documentation and software and firmware upgrades, visit support.avigilon.com.

Technical Support

Contact Avigilon Technical Support at support.avigilon.com/s/contactsupport.

Documents / Resources



aVIGILON NVR5-STD-2NDCPU Standard 2nd CPU Kit [pdf] Installation Guide NVR5-STD-2NDCPU, NVR5 STD 16TB-64TB, Standard 2nd CPU Kit, 2nd CPU Kit, NVR5-STD-2NDCPU, CPU Kit

References

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