

# Hardware replacement tips

Replacing parts in the SR250 V3

Lenovo



## Replacing a firmware and RoT module

After replacing a firmware and RoT security module (RoT module), servicers must update the UEFI and LXPM firmware to the latest supported version before starting the system. If this does not happen, the system will not be able to recognize the correct firmware and will not start normally. As a result, the user will not be able to access the system OS.

Use one of the following methods to update the UEFI and LXPM firmware on the system after replacing the RoT module:

- OneCLI commands
- A USB boot kit with UEFI firmware and LXPM firmware packages
  - For more information on how to create a USB boot kit, refer to the following GLOSSE article: [How to create USB boot kit with OneCLI for RoT replacement in the field](#)

For the complete procedures, refer to the following GLOSSE tip page:

[How to do RoT Module FW update on ThinkSystem V3 machines](#)



## Installing a hot-swap power supply

To install a hot-swap power supply, make sure the label on the power supply is facing up, hold the handle, and slide the power supply into the power supply bay until it clicks into place.

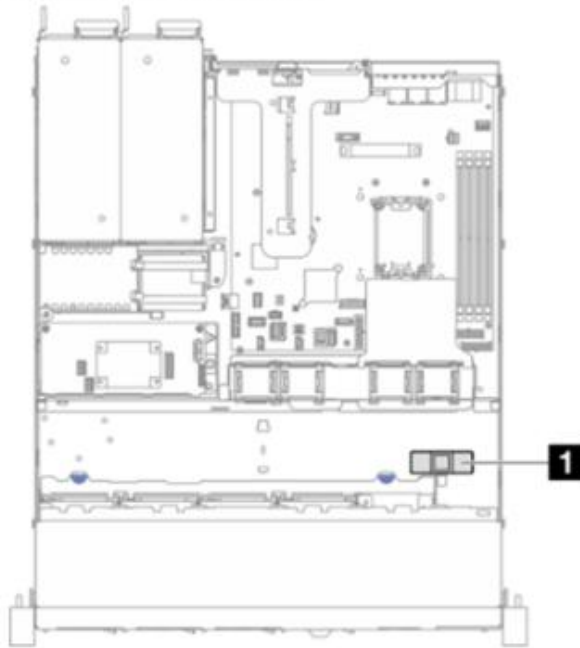




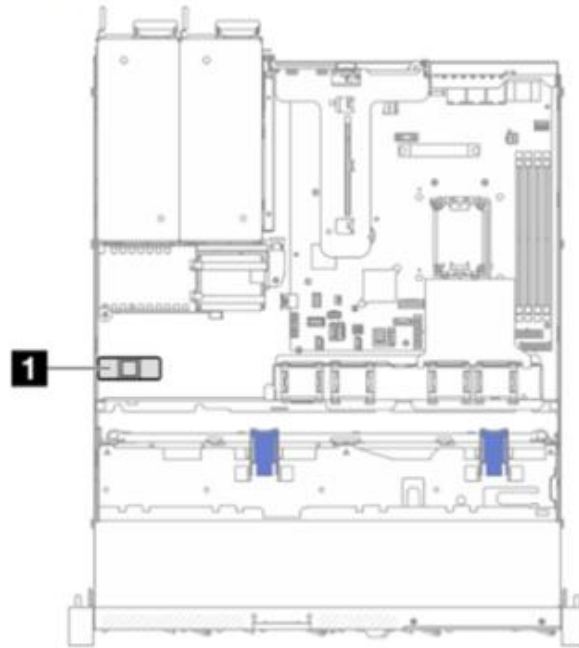
# Replacing an intrusion switch

The intrusion switch is located in a different place on the 2.5-inch drive model and 3.5-inch drive model, but the replacement procedure is identical.

*Figure 1. Intrusion switch location in 2.5-inch drive model*



*Figure 2. Intrusion switch location in 3.5-inch drive model*



**1** Intrusion switch location





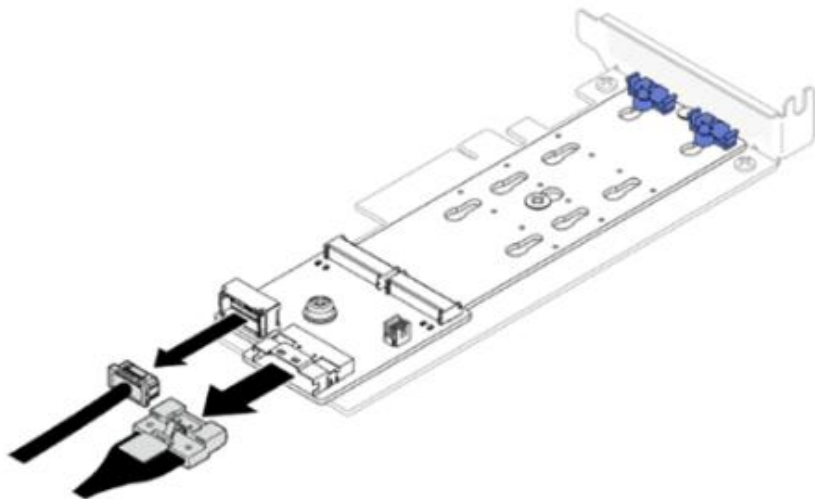
## Replacing an M.2 adapter

The SR250 V3 supports two types of M.2 boot adapter:

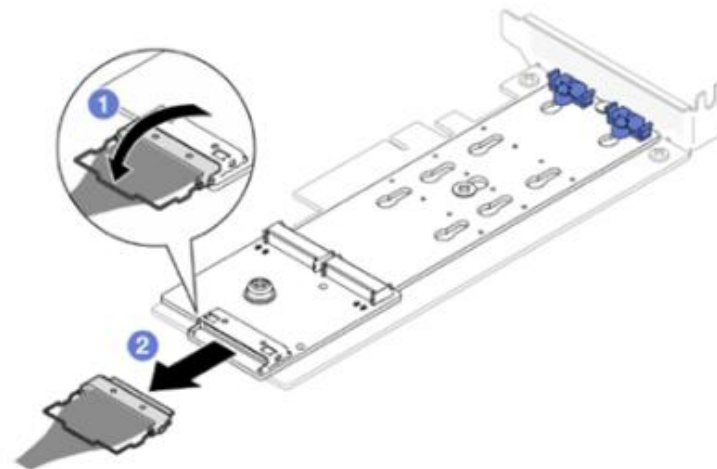
- SATA/x4 NVMe M.2 boot adapter
- SATA/NVMe M.2 boot adapter

The procedures used to connect and disconnect adapter cables are different for the two adapters. Refer to the SR250 V3 User Guide on [Lenovo Docs](#) or the parts replacement videos on the course landing page for more information.

SATA/x4 NVMe M.2 boot adapter



SATA/NVMe M.2 boot adapter





# Replacing a heat sink

The heat sink is fastened to the system board with four screws. To avoid damaging the system board when replacing a heat sink, follow the order shown on the heat sink label to loosen or fasten the screws. Refer to the SR250 V3 User Guide on [Lenovo Docs](#) or the parts replacement videos on the course landing page for more information.



## Procedure

1. Remove the top cover. See [Remove the top cover](#).
2. Loosen screw 1 and 2:
  - a. Partially loosen screw 1.
  - b. Fully loosen screw 2.
  - c. Fully loosen screw 1.

## NOTE

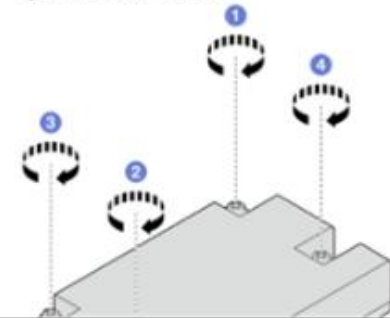
- a. Gently remove the four screws to avoid any damage to the system board.
- b. Always keep the four screws attached to the heat sink.
- c. Do not touch the thermal grease while handling the heat sink.

3. Loosen screw 3 and 4:
  - a. Partially loosen screw 3.
  - b. Fully loosen screw 4.

## Procedure

1. Align the four screws on the heat sink with the corresponding screw holes on the system board.
2. Tighten screw 1 and 2:
  - a. Partially tighten screw 1.
  - b. Fully tighten screw 2.
  - c. Fully tighten screw 1.

Figure 1. Heat sink installation





## Replacing a system board

When removing or installing an SR250 V3 system board, you must remove or fasten the eight screws on the system board in a specific order to avoid damaging the system board.

Click the following links to see the screw removal or fastening orders:

- [Screw removal order](#)
- [Screw fastening order](#)

For your reference, the torque required to fully fasten or remove the screws is 5.0 +/- 0.5 lb-in.



## Screw removal order



When removing or installing an SP250 V3 system board, you must remove or fasten the eight screws on the system board in the order shown in the diagram.

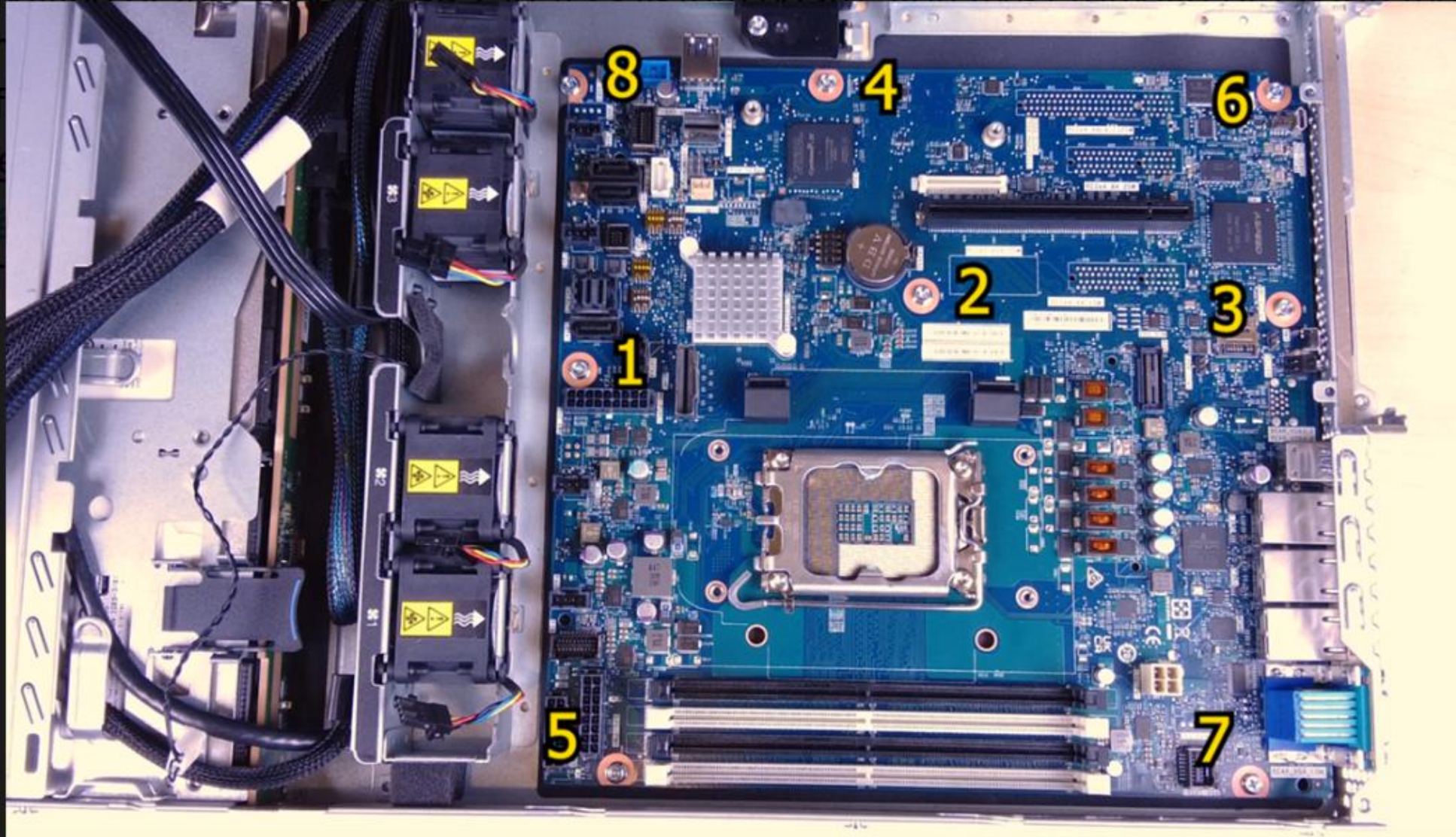
Click the following links:

- [Screw removal order](#)

- [Screw fastening order](#)

For your reference, the screws are numbered 1 through 8 in the diagram.

5 lb-in.





## Screw fastening order



When removing or installing an SP250 V2 system board, you must remove or fasten the eight screws in the following order:

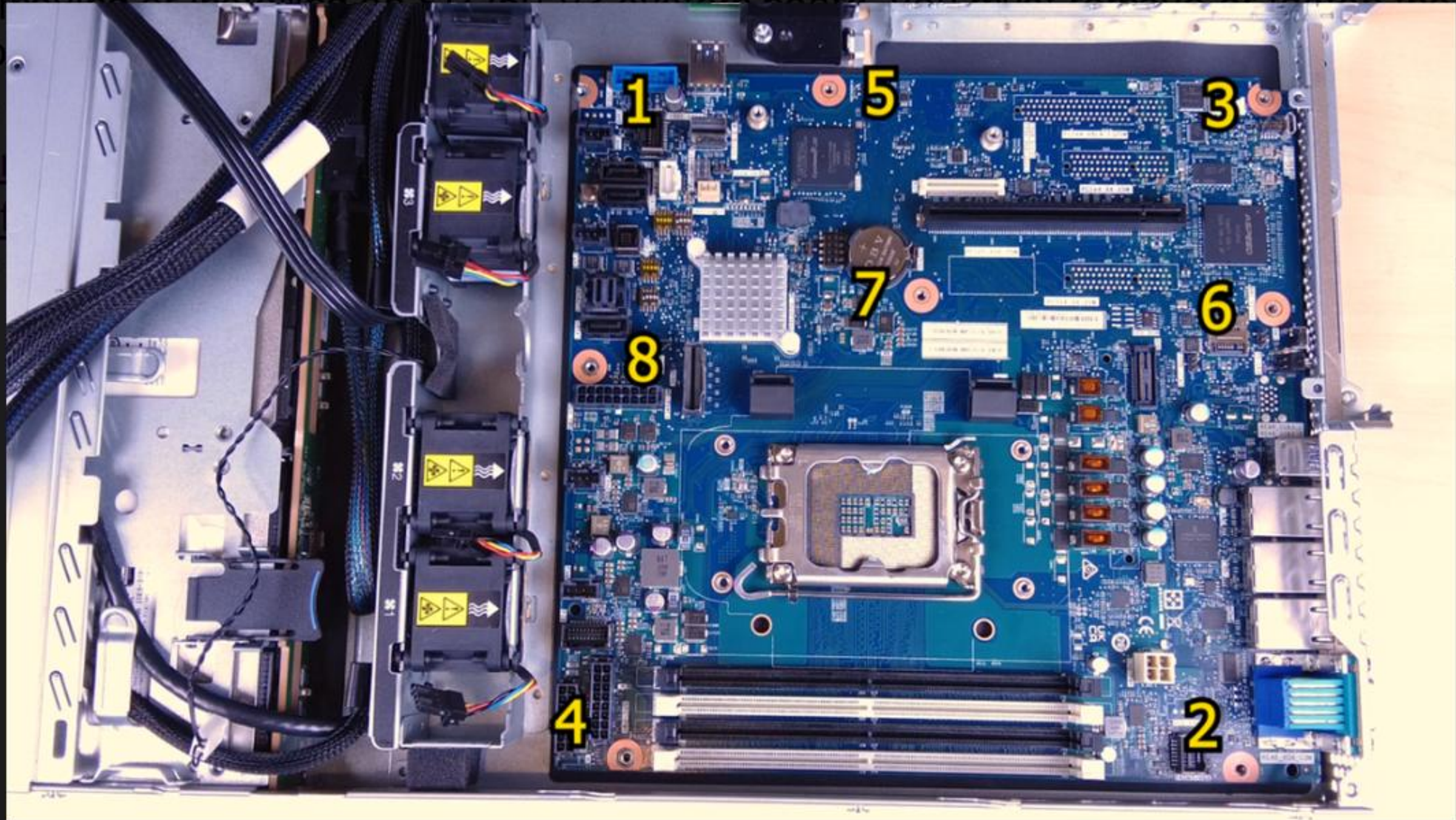
Click the

- Screw

- Screw

For your

5 lb-in.





## Updating the VPD

After replacing a system board, service personnel must update the VPD (machine type and serial number) on the system board. The SR250 V3 VPD update procedure is the same as that used with other Intel-based ThinkSystem models (using the `onecli config set` OneCLI command).

Replacing a firmware and RoT module or system I/O board does not require an update of the VPD.

For more information, refer to the LXCE OneCLI common task section of course [ES51757B](#) [Introducing ThinkSystem tools](#), or the Update the Vital Product Data (VPD) section of the SR250 V3 User Guide on [Lenovo Docs](#).



# Summary

This course enabled you to:

- Describe the ThinkSystem SR250 V3 server and components
- List the SR250 V3 specifications
- Describe the SR250 V3 configurations and block diagrams
- Describe the SR250 V3 management tools
- Describe the problem determination steps and explain how to troubleshoot issues with the SR250 V3