

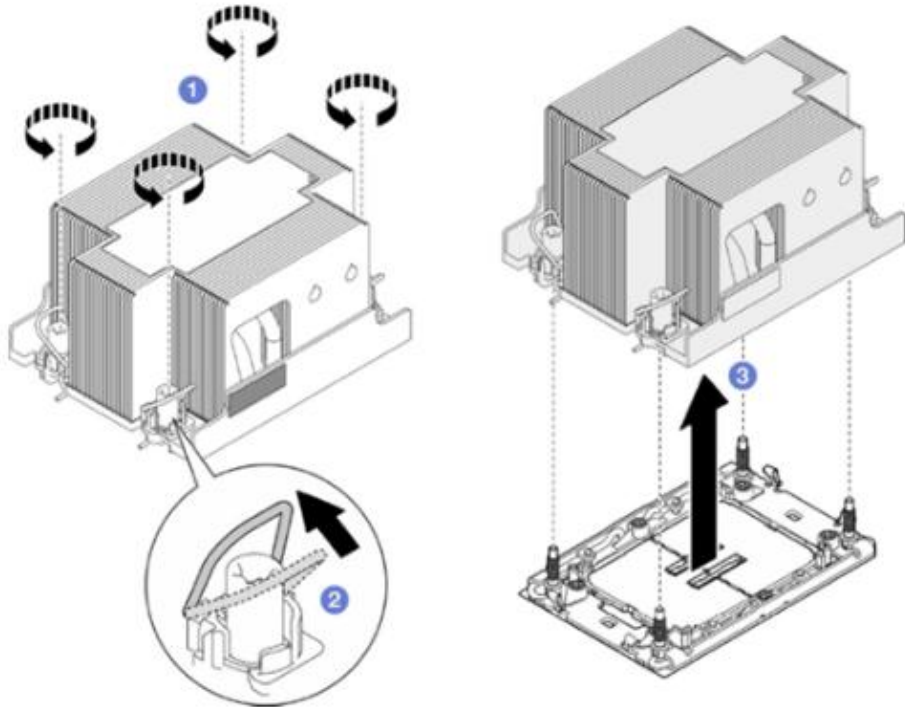
Hardware replacement tips

Part replacement highlights

Lenovo

Replacing a heat sink

The SD530 V3 and SD550 V3 heat sink replacement procedure requires a Torx T30 torque screwdriver. The heat sink, processor, and system board FRU are shipped with a Torx T30 bit. Follow the removal sequence instructions and torque settings shown on the heat sink label to remove or install a heat sink.



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](#)

System board replacement actions

A summary of field service actions

Board (BD)	Code/Configuration	Action
System BD	VPD	Update the VPD after a board replacement
System BD	FPGA	No action: XCC will automatically check the FPGA after the reboot
System BD	SD card	If an SD card is installed, move it to the new system BD
Firmware RoT module	UEFI/XCC firmware	Board replacement requires flashing of XCC and UEFI
Firmware RoT module	UEFI/XCC configuration	Board replacement requires an XCC and UEFI configuration update – use the customer's backup or the add/change option in OneCLI scripts or XCC and F1 settings

Updating the VPD

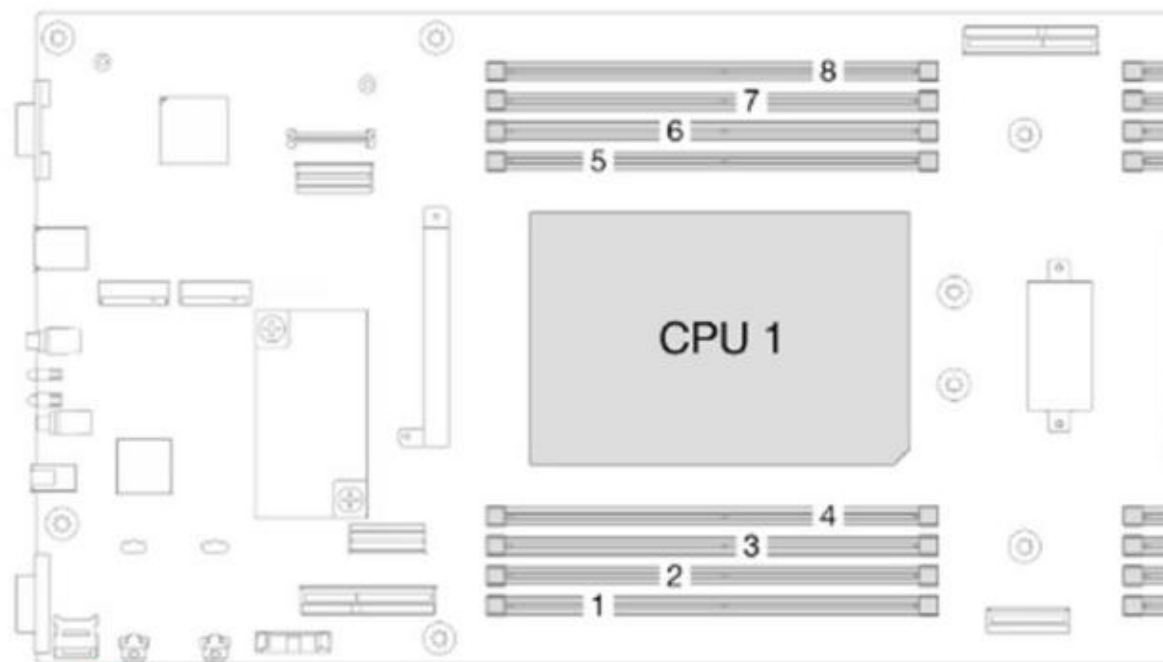
After replacing a processor board, service personnel must update the VPD (machine type and serial number) on the processor board. The SD530 V3 and SD550 V3 VPD update procedures are the same as those used with other ThinkSystem models (using the `onecli config set` OneCLI command).

Replacing a Firmware RoT module does not require an update of the VPD.

For more information, refer to the *XClarity Essentials OneCLI Common task* page of course [ES51757B Introducing ThinkSystem tools](#), or the *Update the Vital Product Data (VPD)* sections under *System board assembly replacement* in the [SD530 V3](#) and [SD550 V3](#) user guides on Lenovo Docs.

Replacing a system board

When replacing the SD530 V3 or SD550 V3 system board, take the Micro SD card that was removed from the old system board and install it on the new system board.



MicroSD socket



Summary

This course enabled you to:

- Describe the features and specifications of the ThinkSystem D3 chassis
- Describe the features and specifications of the ThinkSystem SD550 V3
- Describe the configurations of the SD550 V3
- Describe the features and specifications of the ThinkSystem SD530 V3
- Describe the configurations of the SD530 V3
- Describe the server management tools
- Describe the specific problem determination steps and explain how to troubleshoot issues with the SD530 V3 and SD550 V3