

Smarter technology for all

Servicing the ThinkSystem SR630 V3

ES72337

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Lenovo

Prerequisites

- [ES42373B – Intel Xeon processor architecture for ThinkSystem V3 servers](#)
- [ES51757B – Introducing ThinkSystem tools](#)
- [ES52374 – ThinkSystem tools for the ThinkSystem V3 platform](#)
- [ES41759C – Introducing ThinkSystem problem determination](#)
- [ES51780C - Servicing ThinkSystem storage controllers](#)
- [ES42190 - Servicing the ThinkSystem 4350/5350/9350 RAID/HBA series adapters](#)

Objectives

After completing the course, you will be able to:

- Describe the features and specifications of the ThinkSystem SR630 V3
- Identify the components of the SR630 V3
- Describe the configurations of the SR630 V3
- Describe the SR630 V3 server management tools
- Describe the specific problem determination steps and explain how to troubleshoot issues with the SR630 V3

What's new

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Intel On Demand on the ThinkSystem SR630 V3

Intel On Demand implements software-defined silicon (SDSi) features on certain 4th Generation Intel Xeon Scalable processors and is available via Lenovo license. The licenses enable customers to activate embedded accelerators and increase the SGX Enclave size in supported processor models as their workload and business needs change.

Available upgrades are as follows:

- Up to four QuickAssist Technology (Intel QAT) accelerators
- Up to four Intel Dynamic Load Balancer (Intel DLB) accelerators
- Up to four Intel Data Streaming Accelerator (Intel DSA) accelerators
- Up to four Intel In-Memory Analytics Accelerator (Intel IAA) accelerators
- 512 GB SGX Enclave, an encrypted memory space for use by Intel Software Guard Extensions (SGX)

For more information about Intel On Demand, refer to course [ES42373B – Intel Xeon processor architecture for ThinkSystem V3 servers](#)

Open loop water cooling on the SR630 V3

The SR630 V3 supports advanced direct-water cooling (DWC) capabilities with the Lenovo Neptune Processor DWC Module (DWCM). This module implements a liquid cooling solution with an open loop and coolant distribution units to allow heat from the processors to be removed from the rack and the data center. The liquid used in the loop is a mixture of water and ethylene glycol (EGW).

For more information about the DWCM, refer to the Lenovo Neptune Processor Direct Water Cooling Module section in this course.

