

Servicing the Lenovo ThinkSystem SR850P server

ES71986

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The Lenovo logo is a green rectangular box with the word "Lenovo" written vertically in white. The background of the entire slide is dark blue with a pattern of light blue dots of varying sizes.

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Prerequisites

- ES41758 - ThinkSystem servers architecture introduction
<https://lenovoedu.lenovo.com/course/view.php?idnumber=ES41758>
- ES51757 - Introducing ThinkSystem tools
<https://lenovoedu.lenovo.com/course/view.php?idnumber=ES51757>
- ES41759 - ThinkSystem problem determination
<https://lenovoedu.lenovo.com/course/view.php?idnumber=ES41759>
- ES41950 - ThinkSystem servers with Intel second-generation Xeon Scalable processors
<https://lenovoedu.lenovo.com/course/view.php?idnumber=ES41950>
- ES51965 - Introducing the Intel Optane DC persistent memory module
<https://lenovoedu.lenovo.com/course/view.php?idnumber=ES51965>

Objectives

After completing the course, you will be able to:

- Describe the features of the Lenovo ThinkSystem SR850P
- Describe the specifications of the Lenovo ThinkSystem SR850P
- Describe the components of the Lenovo ThinkSystem SR850P
- Describe the configurations of the Lenovo ThinkSystem SR850P
- Describe the problem determination steps and explain how to troubleshoot issues with the Lenovo ThinkSystem SR850P

Product overview

Product description and front, rear, and inside views

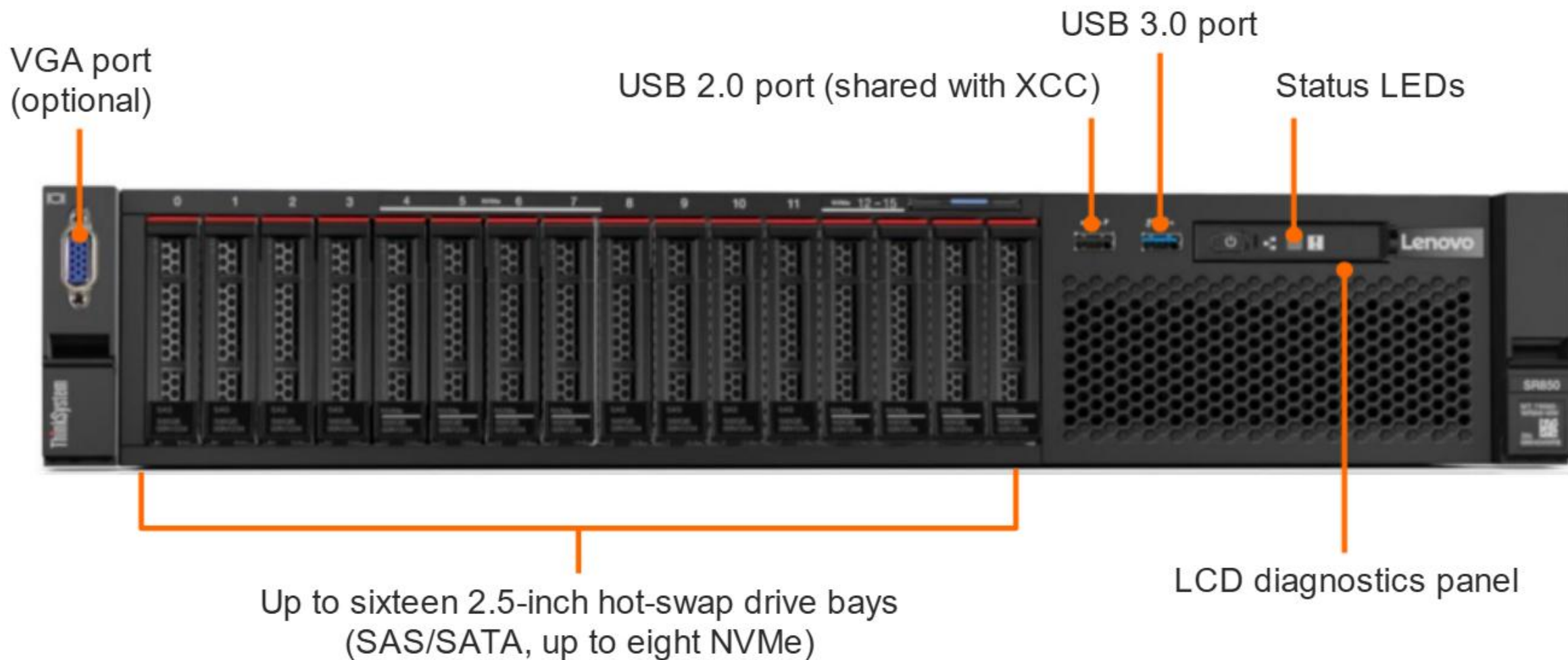
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ThinkSystem SR850P product overview

The SR850P is a 2U rack server with four Intel® Xeon® SP Gen-1 or Gen-2 processors. The SR850P enables flexibility in terms of processors, memory modules, and storage. The server also features:

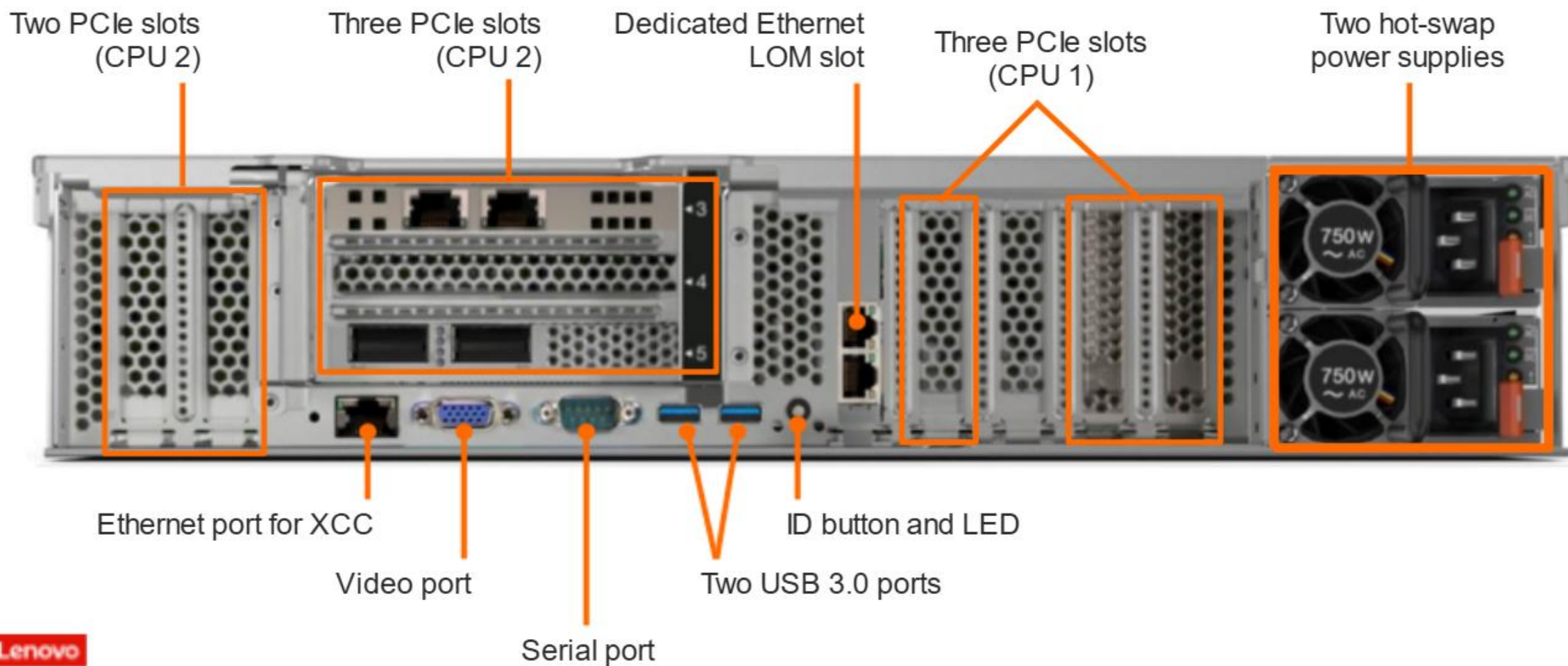
- Support for full mesh UPI topology; 3 UPI links running at 10.4 GT/s
- The SR850P can only be installed with four CPUs, which support four to 48 DIMMs
- Support for up to 2933 MHz memory modules and AEP persistent memory
- Lenovo AnyBay drive bays, which accommodate SAS, SATA, and NVMe storage devices in the same bays
- Direct-connect NVMe ports – four direct motherboard connections for NVMe storage providing read/writes and reducing costs by eliminating PCIe switch adapters
- Expansion with ten PCIe slots (including four x16), including one for a LOM slot
- M.2 storage for fast OS boot times, which also frees up drive bays for data storage
- The SR850P released with the MT 7D2F has a one-year warranty; with the 7D2G, a three-year warranty; with the SAP-specific 7D2H, a three-year warranty

Front view

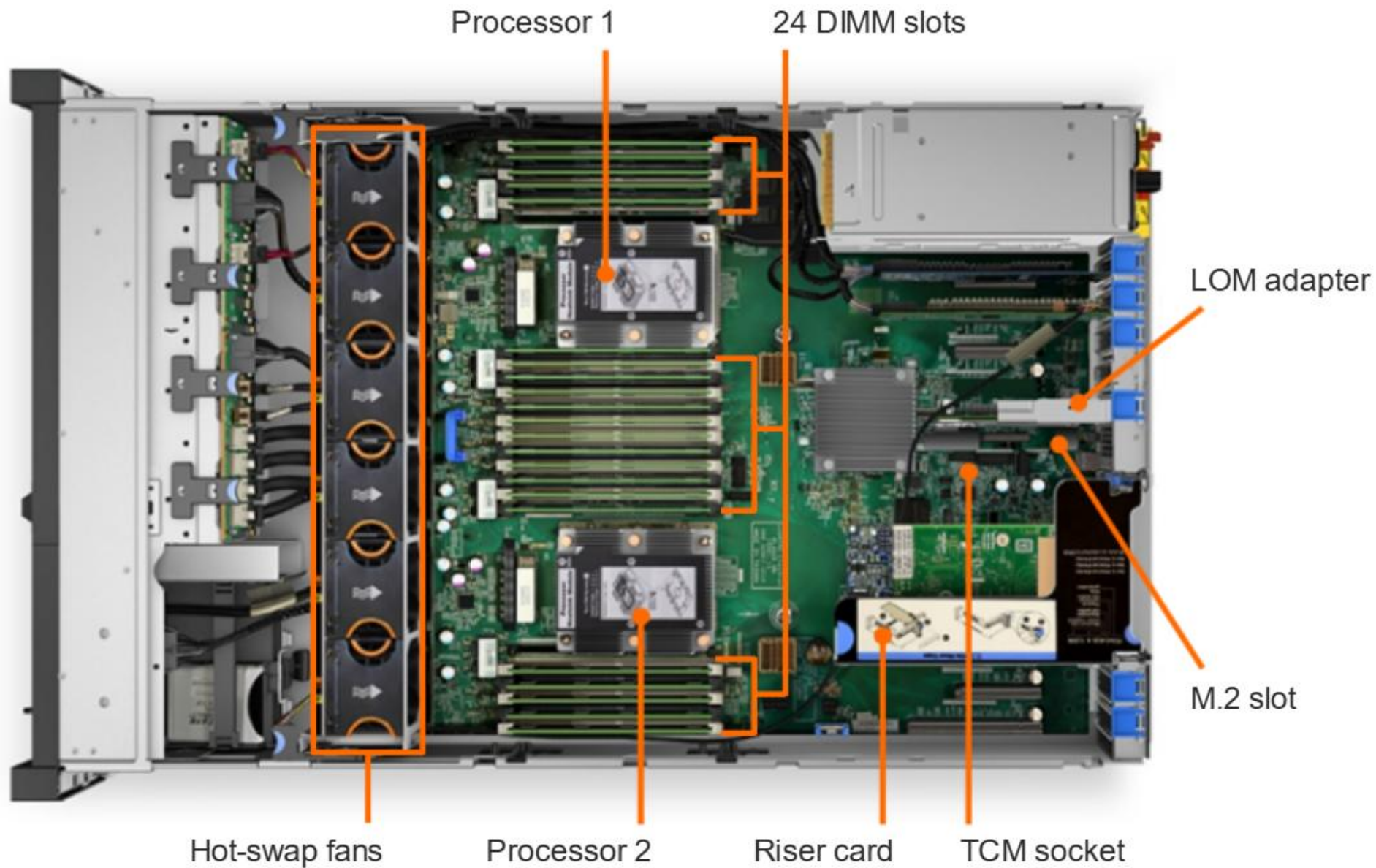


Rear view

The server supports up to nine PCIe slots including a slot reserved for the M.2 adapter. All slots are available with two processors.



Internal view



Processor and memory expansion tray – internal view

24 DIMM slots



Processor 3

Two NVMe connectors

Processor 4