

Smarter technology for all

Servicing the ThinkSystem SR860 V4

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Lenovo

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Preface

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The information in this publication is correct as of the date of the latest revision and is subject to change at any time without notice.

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Prerequisites

- [ES42692 – Intel Xeon processor architecture for ThinkSystem V4 servers](#)
- [ES52678 – ThinkSystem tools for the ThinkSystem V4 platform](#)
- [ES41759C – ThinkSystem problem determination](#)

Objectives

After completing the course, you will be able to:

- Describe the ThinkSystem SR860 V4 server and components
- List the SR860 V4 specifications
- Describe the SR860 V4 configurations and block diagrams
- Describe the SR860 V4 management tools
- Describe the problem determination steps and explain how to troubleshoot issues with the SR860 V4

Product overview

Product description and front, rear, and inside views

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Product overview

The ThinkSystem SR860 V4 is a 4U four-socket rack server that features Intel Xeon Scalable 6700 P-Series processors (Intel code name: Birch Stream). The SR860 V4 supports 2.5-inch drives or E3.S drives in the front drive bays.

The SR860 V4 has 64 DIMM slots, and it also supports [compute express link \(CXL\) memory modules](#) in the front E3.S bays for memory expansions.

There are three SR860 V4 machine types:

- 7DJQ: one-year warranty
- 7DJN: three-year warranty
- 7DJR: SAP HANA configurations with a three-year warranty



Front views

The SR860 V4 supports the following front bay configurations:



24 2.5-inch hot-swap SAS/SATA and 24 2.5-inch AnyBay drives



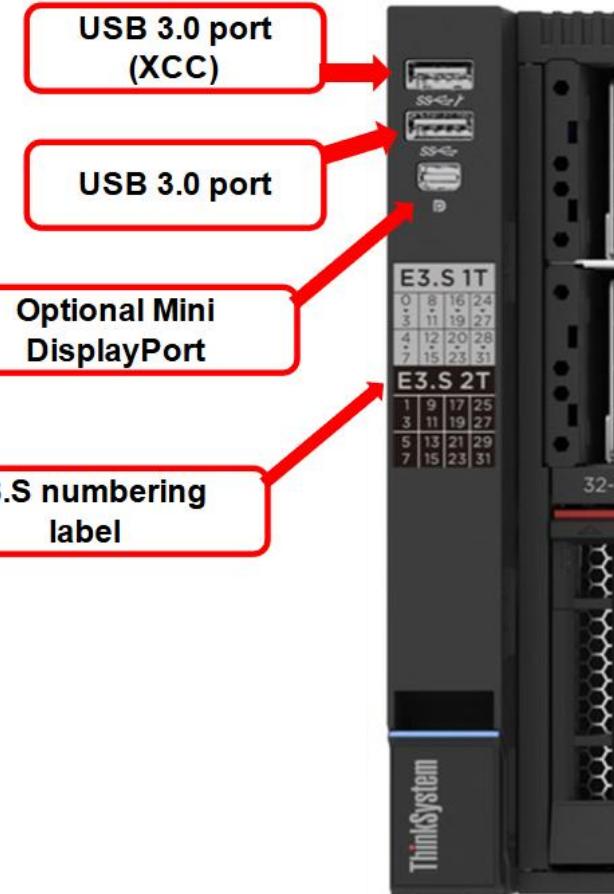
32 E3.S 1T and 24 2.5-inch hot-swap SAS/SATA drives



16 E3.S 2T non-hot-swap CXL memory modules and 24 2.5-inch hot-swap SAS/SATA drives

Click [HERE](#) to see descriptions of the front I/O ports.

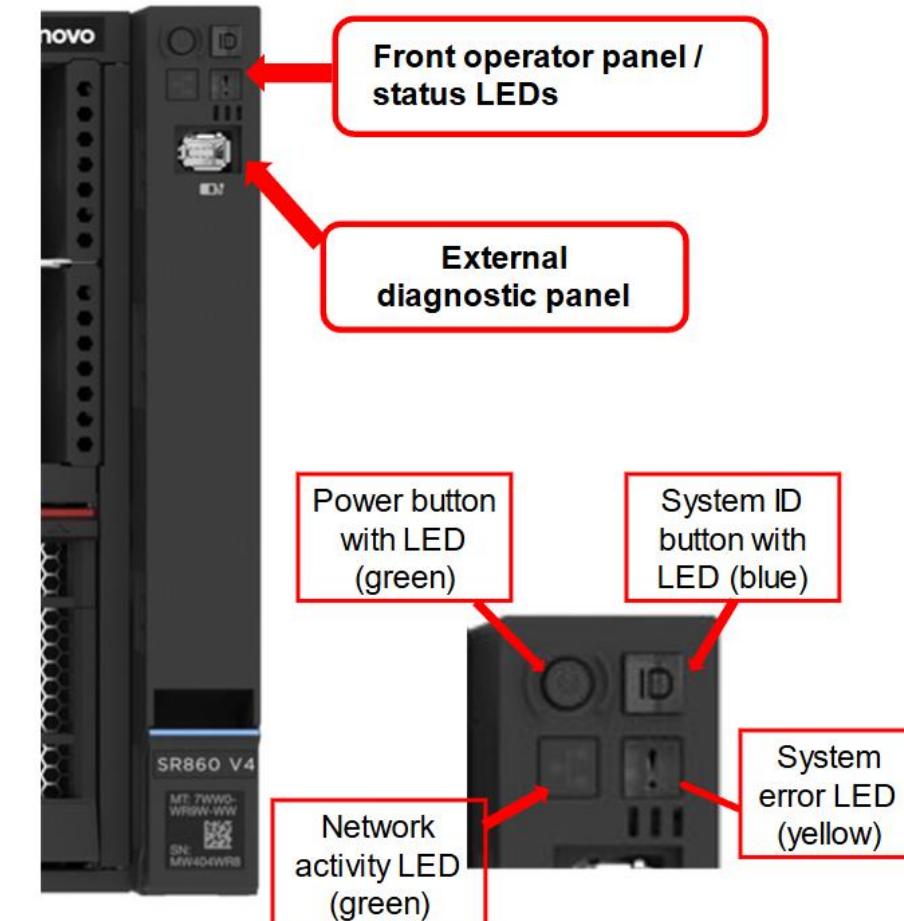
Front I/O ports and LEDs



Front E3.S drive model



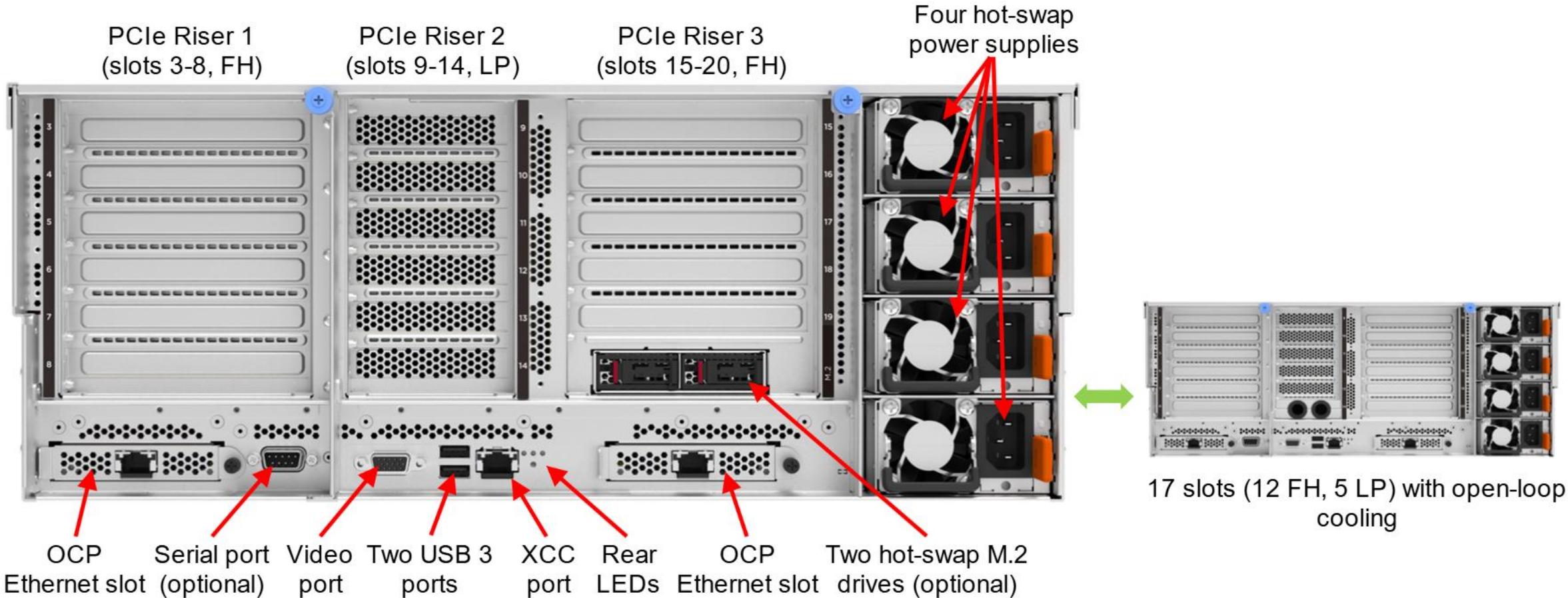
Front 2.5-inch drive model



Click [HERE](#) to see descriptions of the front I/O ports.

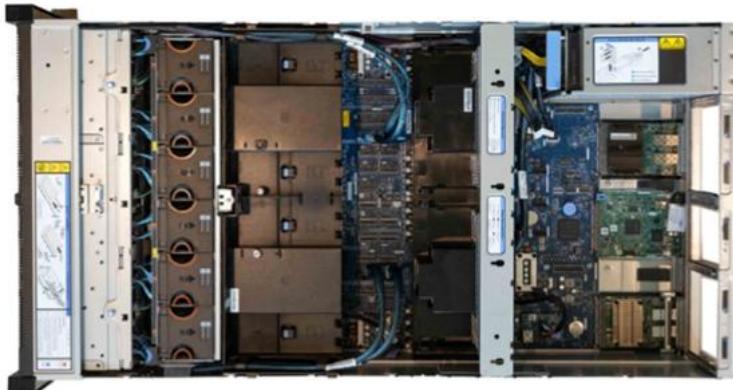
Rear views

SR860 V4 supports various PCIe riser card combinations, and two OCP slots in the rear side.



Inside views

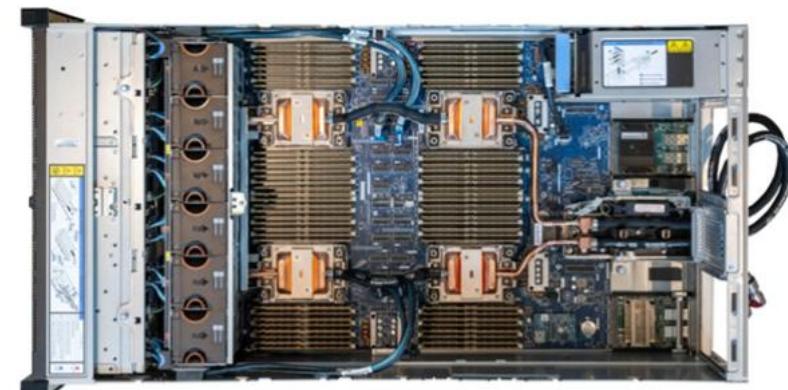
Click the pictures to see more information.



Air-cooling system
with air baffle installed



Air-cooling system
without air baffle



System with processor liquid-cooling
Neptune core module installed

Rear heat sink types

Depending on the processor and PCIe adapter configurations, the SR860 V4 should be installed with one of the following rear heat sinks:

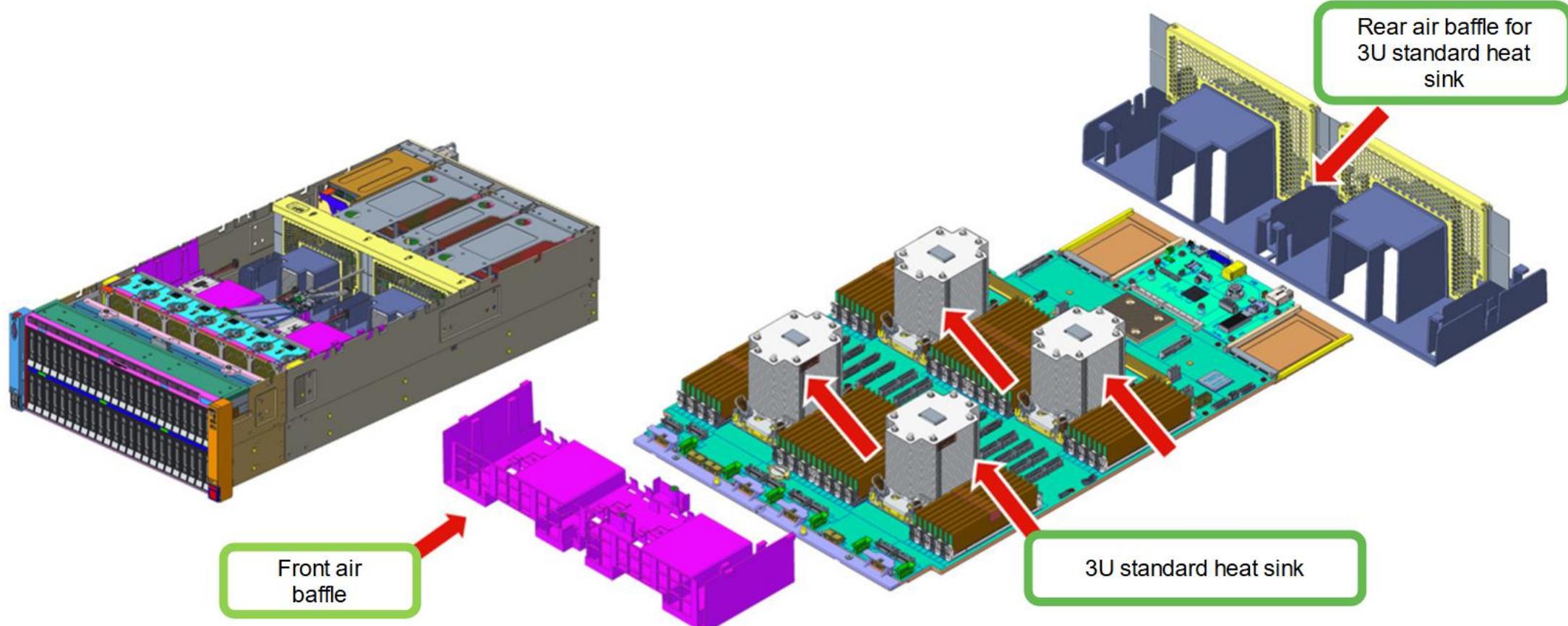
3U standard heat sink

2U performance heat sink

Click the buttons to see more information about each type of heat sink.

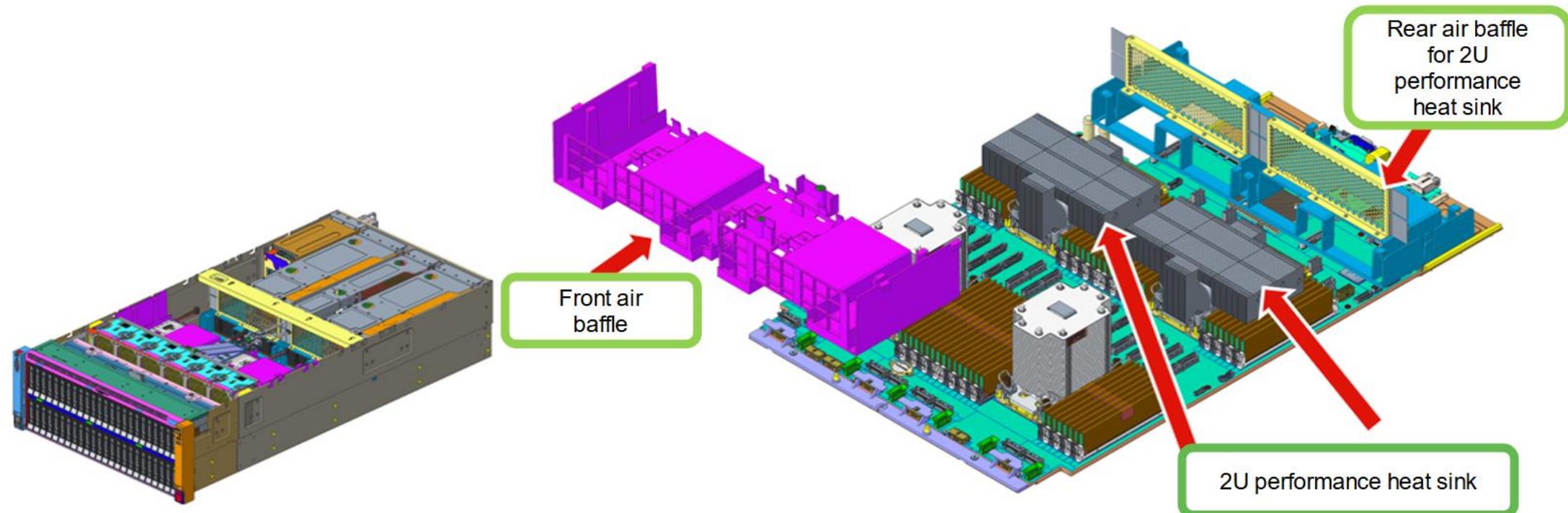
Rear heat sink types

- Support for the half-length PCIe adapter configuration only
- No support for the field kit to change from half-length to full-length PCIe riser cages
- A unique 3U rear air baffle is required



Rear heat sink types

- Support for the half-length PCIe adapter configuration only
- No support for the field kit to change from half-length to full-length PCIe riser cages
- A unique 2U rear air baffle is required
- Before replacing a DIMM under a 2U performance heat sink, the service engineer must remove the 2U performance heat sink



USB I/O board

For the optional front Mini DisplayPort configuration, an internal USB I/O board is required. This is a new requirement for a V4 system.

