Smarter technology for all

Servicing the ThinkSystem SR250 V3

ES72607

February 2024

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

- ES40610D – Introducing the Features on Demand technology

Objectives

After completing the course, you will be able 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

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Product overview

Product description and front, rear, and inside views

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Product overview

The ThinkSystem SR250 V3 is a 1U one-socket rack server that features Intel Xeon E2400 series processors (code name: Raptor Lake-E). The SR250 V3 supports up to 10 2.5-inch drives or four 3.5-inch drives, DDR5 memory modules, and PCIe 5.0 configurations.

There are two SR250 V3 machine types:
• 7DCL: three-year warranty
• 7DCM: one-year warranty
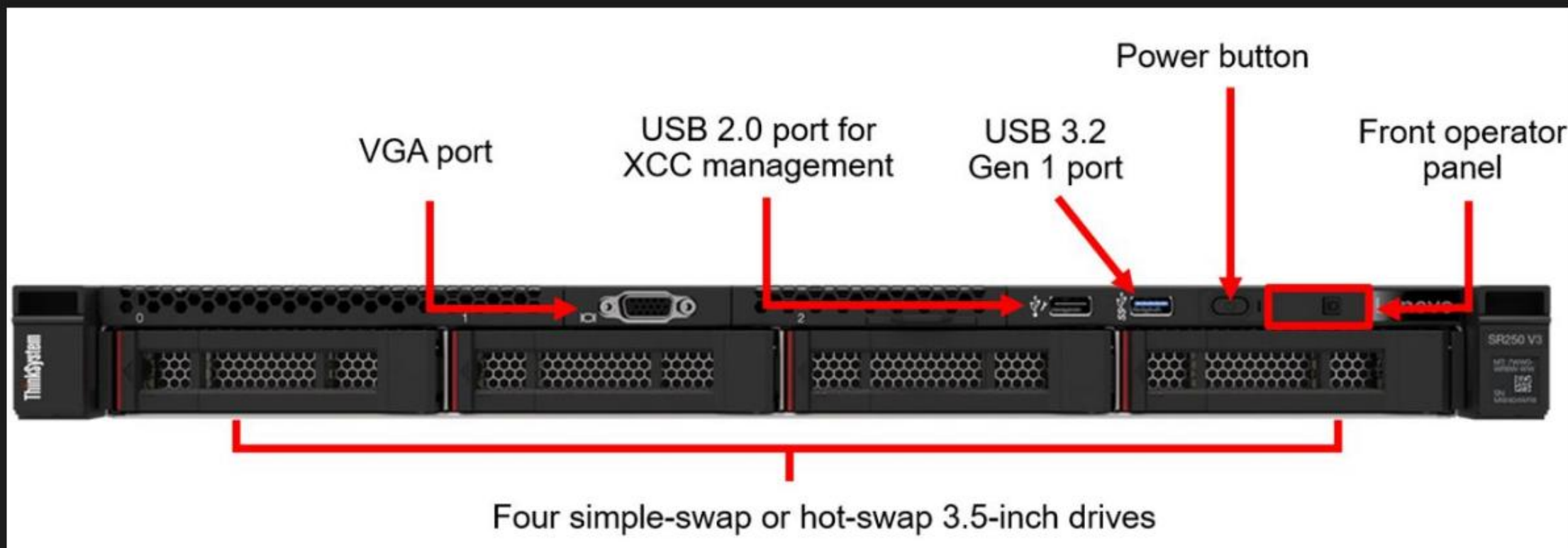
Front views

Click the pictures to see more information.

3.5-inch drive model

2.5-inch drive model
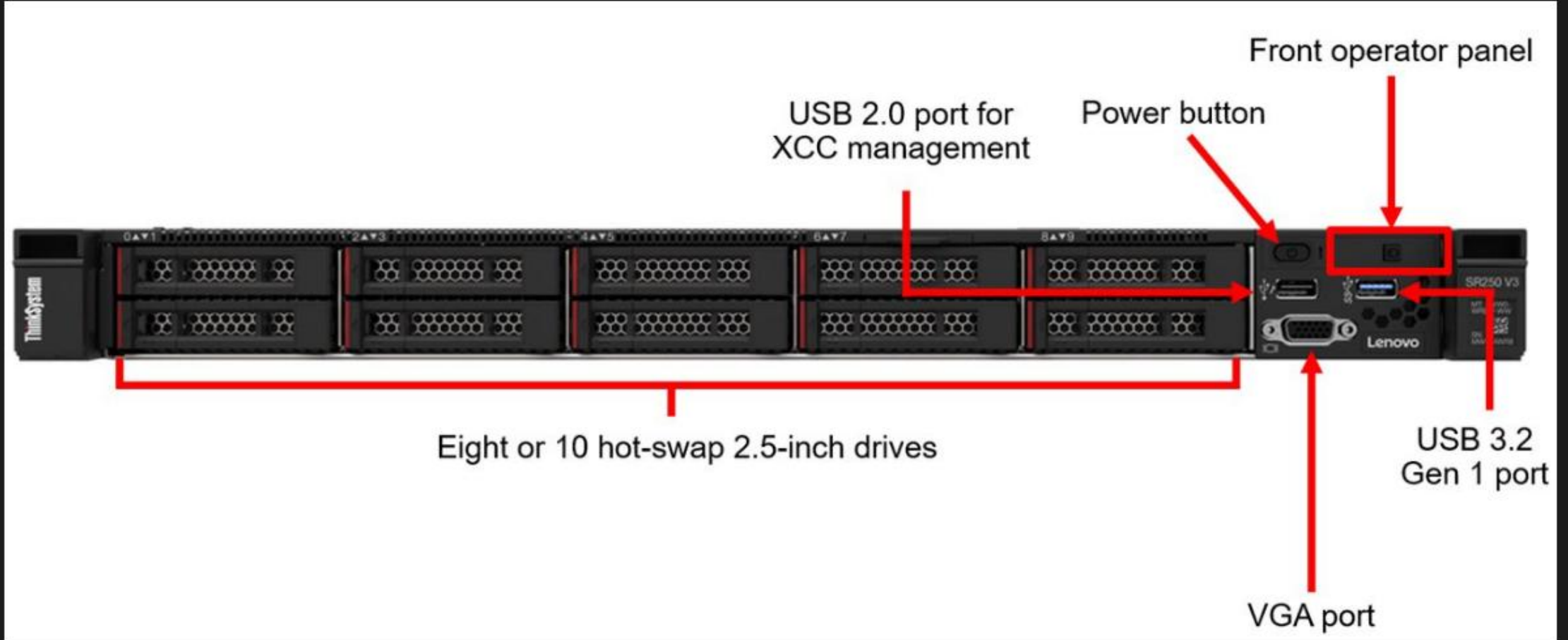
3.5-inch drive model

Click the pictures to see more information.

Power button

VGA port

USB 2.0 port for
XCC management

USB 3.2
Gen 1 port

Front operator
panel

Four simple-swap or hot-swap 3.5-inch drives

2.5-inch drive model

Click the pictures to see more information.

Front operator panel

USB 2.0 port for
XCC management

Power button

Eight or 10 hot-swap 2.5-inch drives

USB 3.2
Gen 1 port
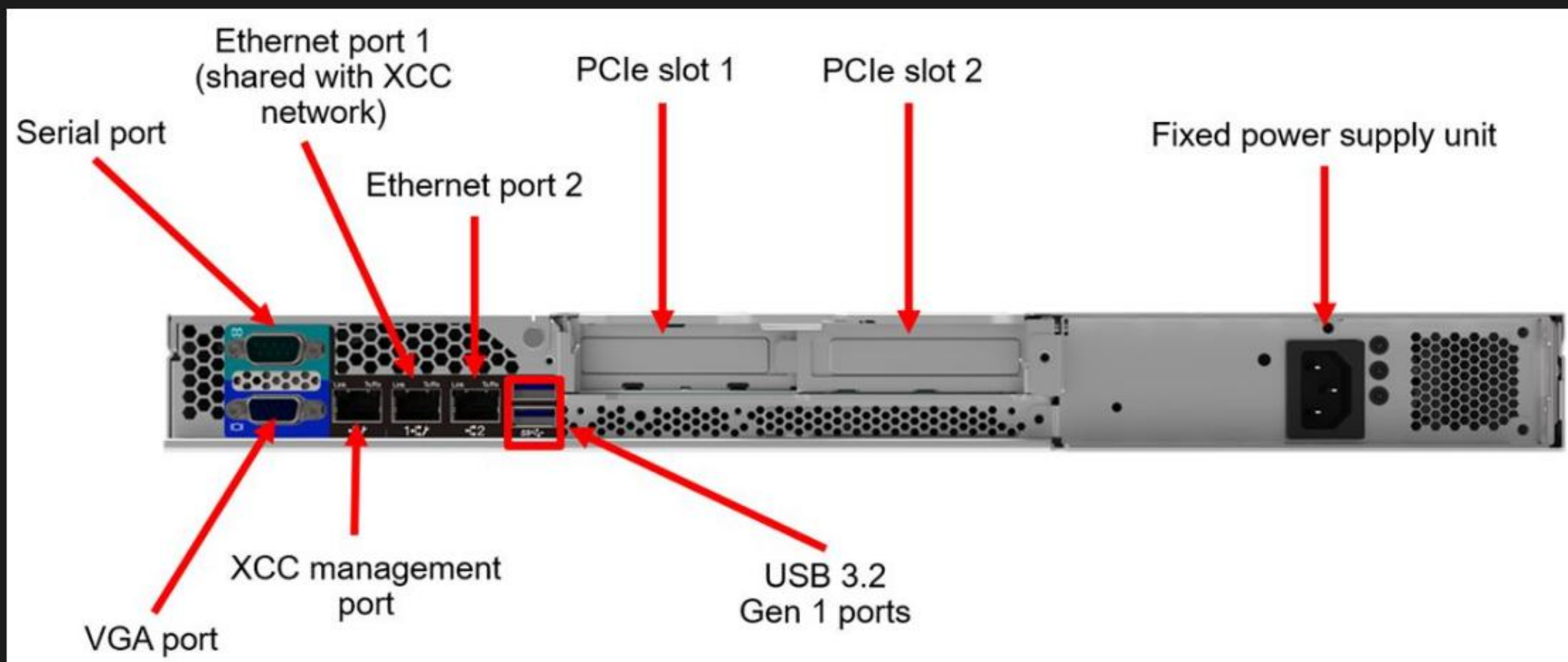
VGA port

Rear view

Click the pictures to see more information.

Fixed power supply model

Hot-swap power supply model

Fixed power supply model
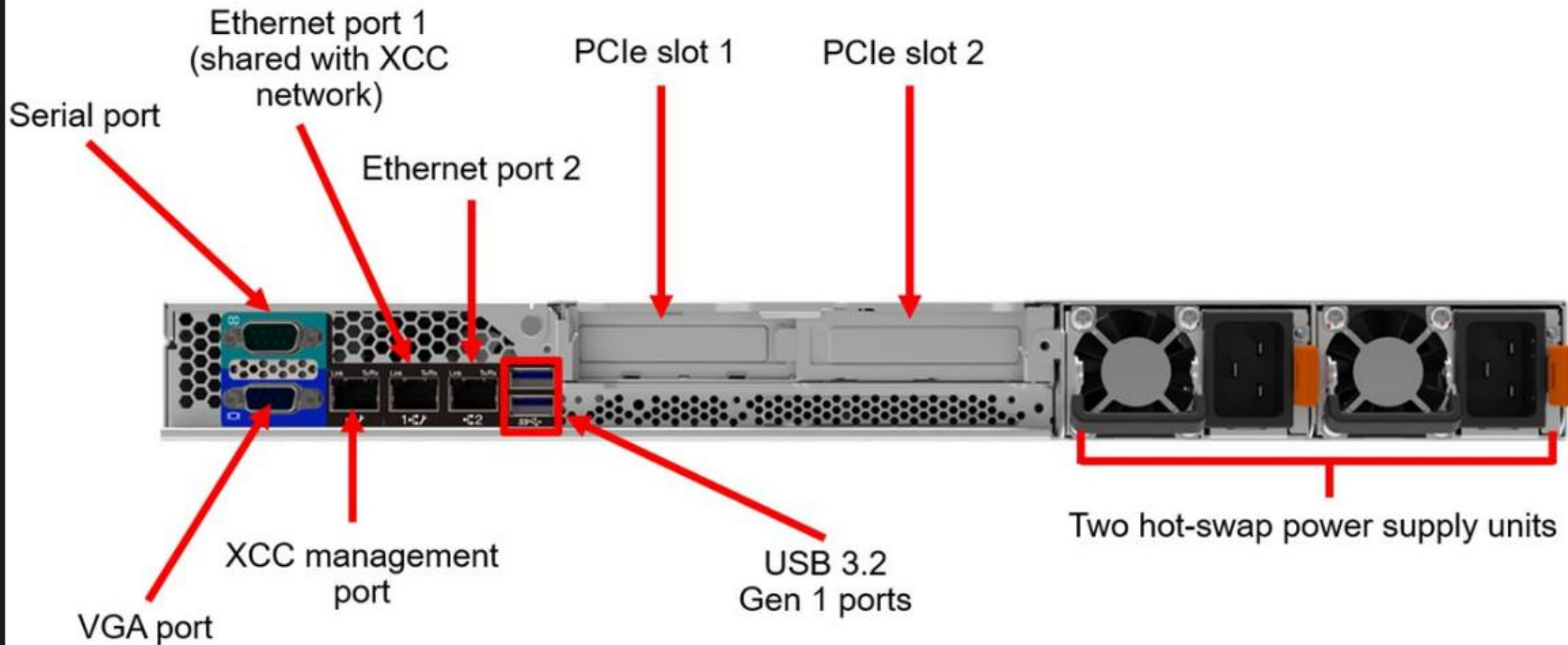
Click the pictures to see more information.

Serial port

Ethernet port 1 (shared with XCC network)

Ethernet port 2

PCIe slot 1

PCIe slot 2

Fixed power supply unit

VGA port

XCC management port

USB 3.2 Gen 1 ports

Hot-swap power supply model

Click the pictures to see more information.

Serial port

Ethernet port 1
(shared with XCC
network)

Ethernet port 2

PCIe slot 1

PCIe slot 2

VGA port

XCC management
port

USB 3.2
Gen 1 ports

Two hot-swap power supply units

Inside view

CFF RAID adapter

Drive backplane or backplate

Hot-swap or fixed power supply

Firmware and RoT module

PCIe riser assembly

Processor and heat sink

Intrusion switch

Simple-swap fans

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