Manuals+ — User Manuals Simplified.

Lenovo SR650V2 ThinkSystem Server User Guide

Contents [**hide**]

Lenovo SR650V2 ThinkSystem Server

INTRODUCTION

The ThinkSystem SR650 V2 is a server that comes with various drive bay options and PCIe slots. The server also includes an LCD diagnostics panel, network activity LED, system error LED, VGA connector, USB 3 (5 Gbps) connectors, and XClarity Controller network connector.

In the box

- Server
- Rail kit*
- Cable management arm*
- Material box, including items such as accessory kit, power cords* and documentation

Note: Items marked with asterisk (*) are available on some models only.
If any item is missing or damaged, contact your place of purchase. Ensure that you retain your proof of purchase.
They might be required to receive warranty service.

First glance

Front view:
Note: Your server might look different from the following illustrations.
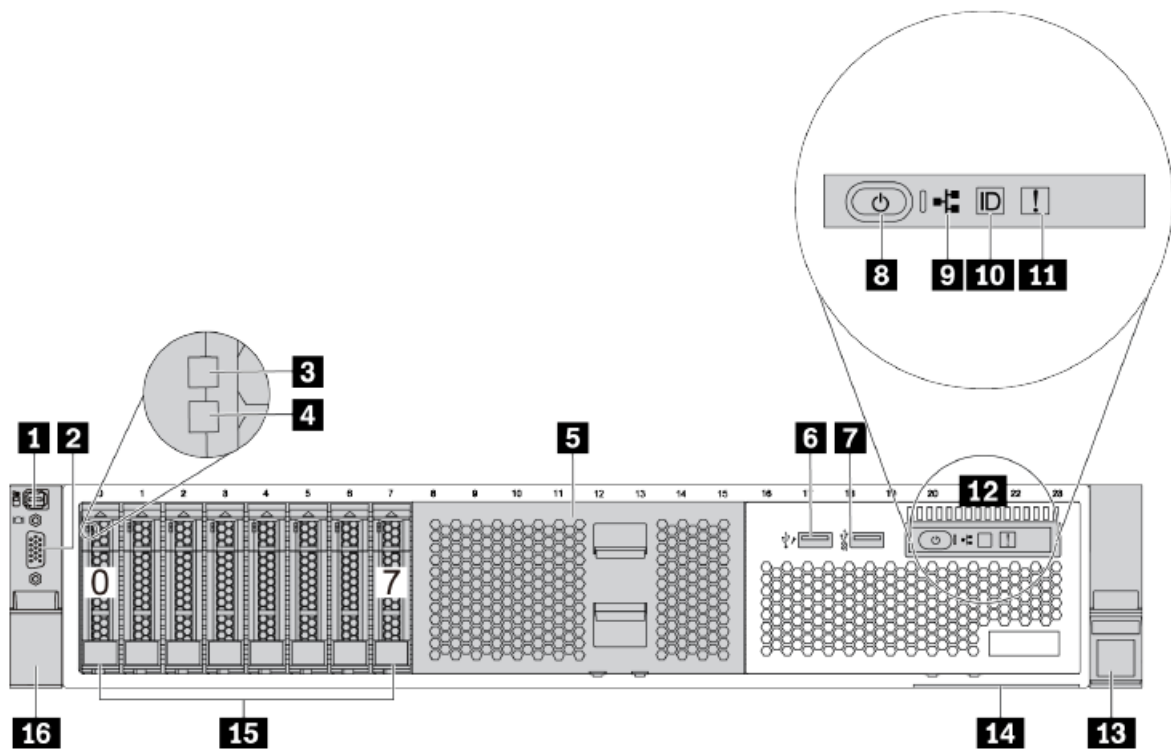
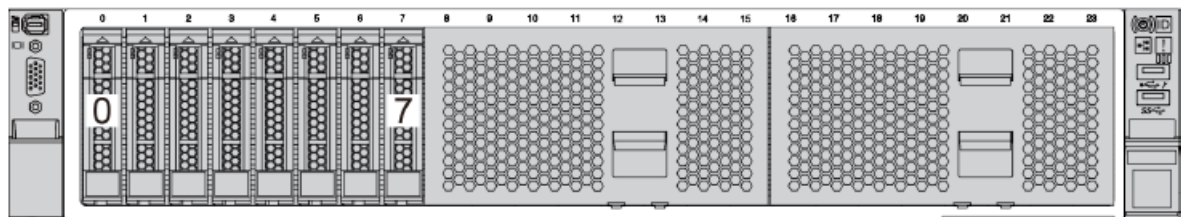Figure 1. Front view with 8 x 2.5-inch drive bays and LCD diagnostics panel

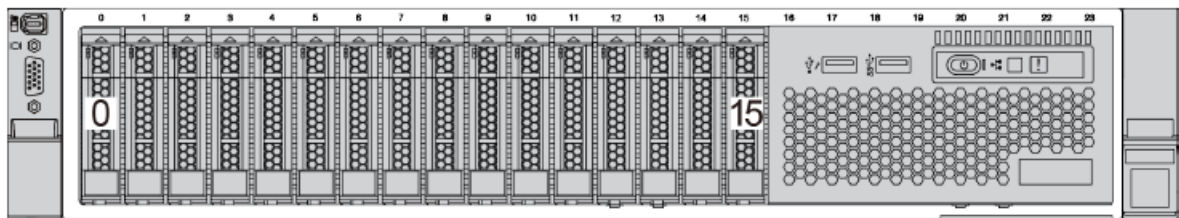Figure 2. Front view with 8 x 2.5-inch drive bays

Figure 3. Front view with 16 x 2.5-inch drive bays and LCD diagnostics panel
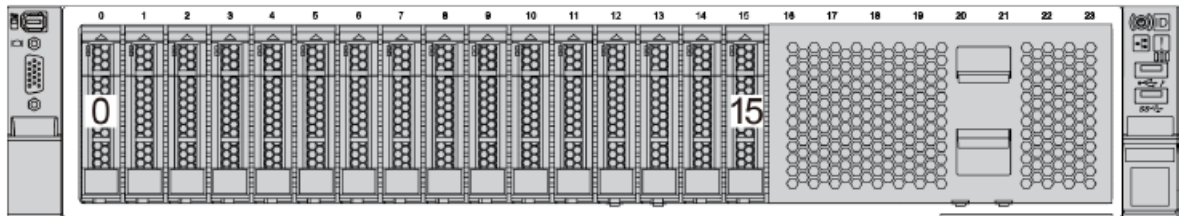

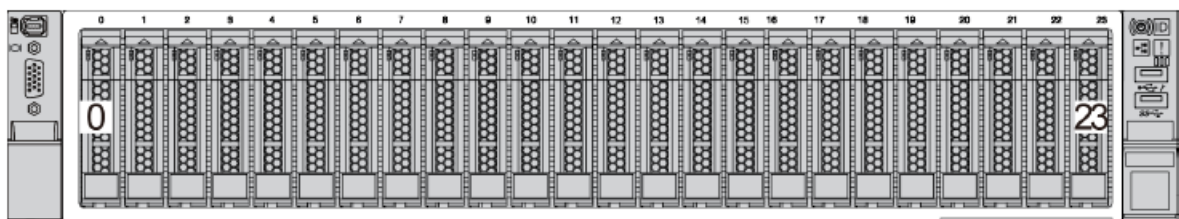Figure 4. Front view with 16 x 2.5-inch drive bays

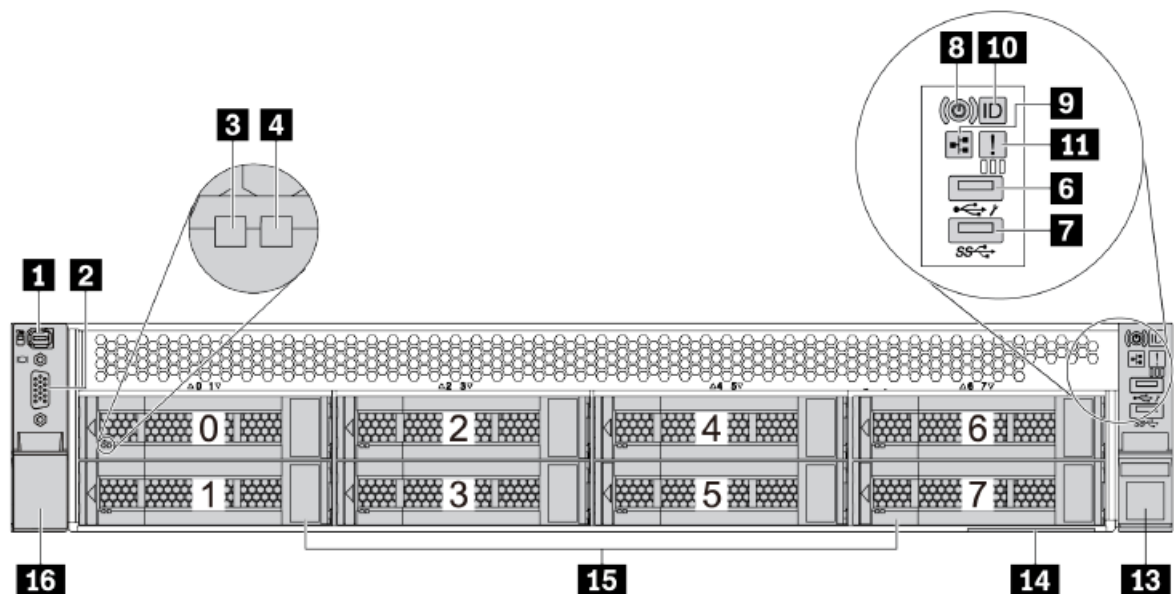
Figure 5. Front view with 24 x 2.5-inch drive bays

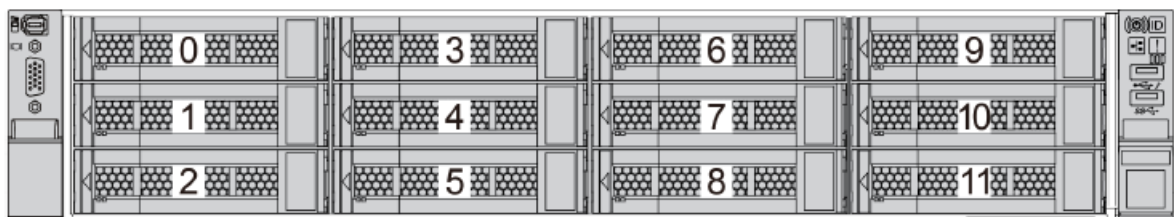Figure 6 Front view with 8 x 3.5-inch drive bays

Figure 7. Front view with 12 x 3.5-inch drive bays

|	
1. External diagnostics connector	2. VGA connector (optional)
3. Drive activity LED	4. Drive status LED
5. Drive bay filler	6. USB 2.0 connector with XClarity Controller management
7. USB 3 (5 Gbps) connector	8. Power button with power status LED
9. Network activity LED (for OCP 3.0 Ethernet adapter)	10. System ID button with system ID LED
11. System error LED	12. LCD diagnostics panel
13. Rack latch (right)	14. Pull-out information tab
15. Drive bays	16. Rack latch (left)

Rearview:
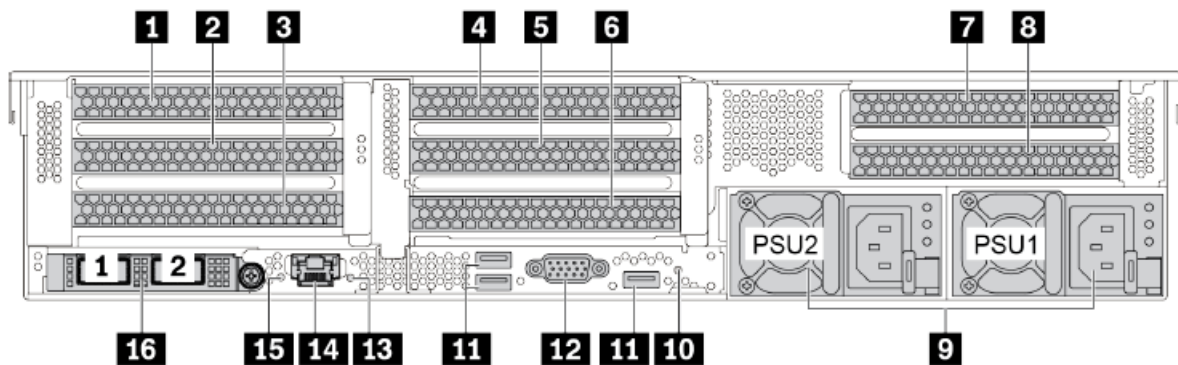
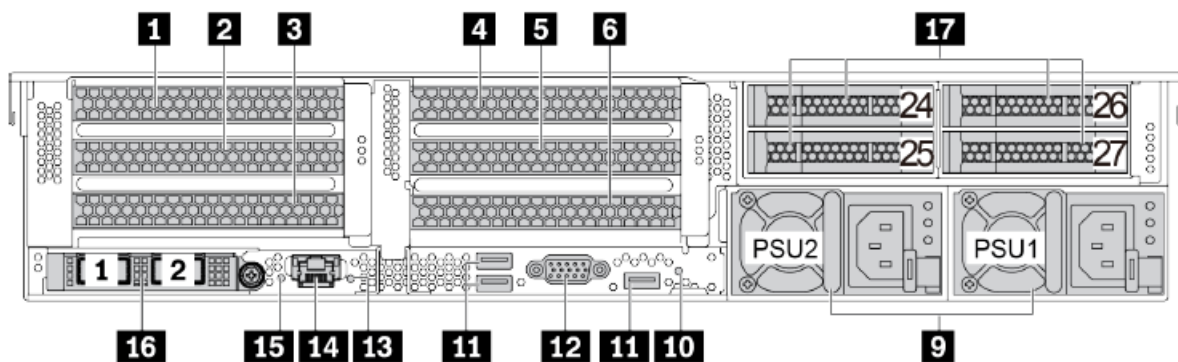Figure 8. Rear view with eight PCIe slots

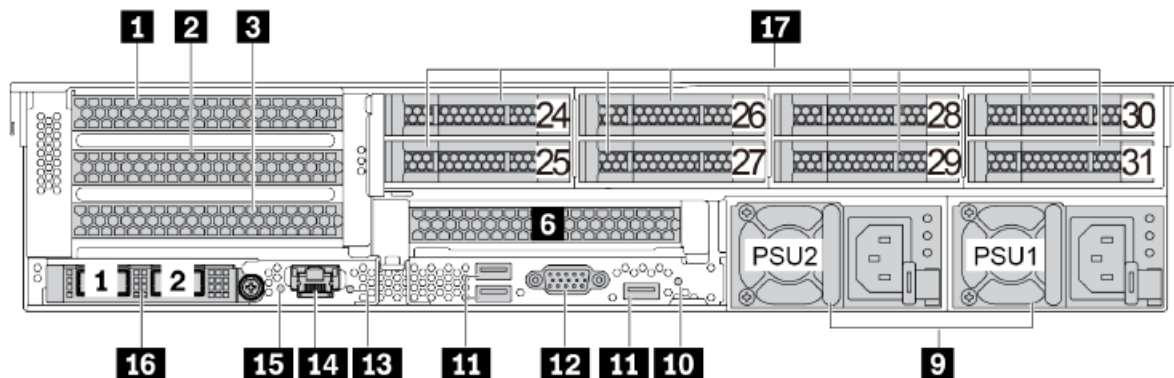Figure 9. Rear view with six PCIe slots and four 2.5-inch drive bays

Figure 10. Rear view with four PCIe slots and eight 2.5-inch drive bays
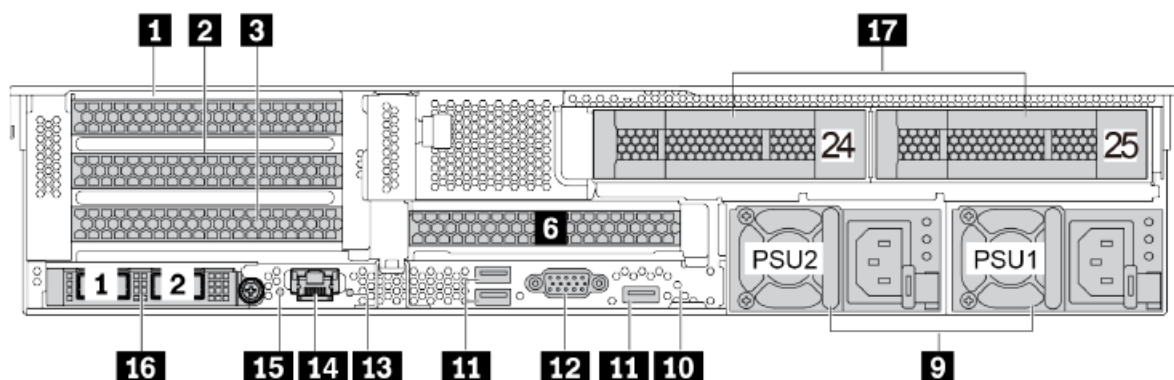
Figure 11. Rear view with four PCIe slots and two 3.5-inch drive bays
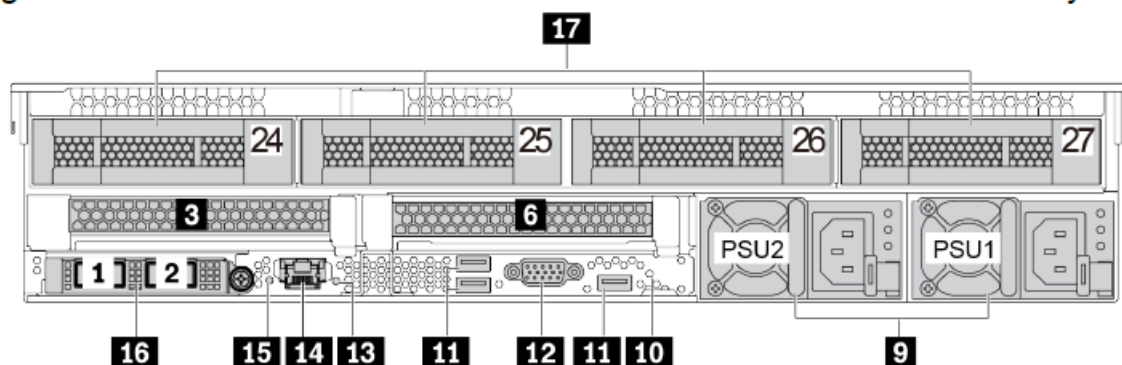
Figure 12. Rear view with two PCIe slots and four 3.5-inch drive bays

1-8. PCIe slots* 1, 2, 3, …8	9. Power supplies
10. NMI button	11. USB 3 (5 Gbps) connectors
12. VGA connector	13. System error LED
14. XClarity Controller network connector	15. System ID LED
16. Ethernet connectors on OCP 3.0 Ethernet adapter (optional)	17. Rear drive bays

*: PCIe slot 3 or 6 can be installed with two 7mm drives or a serial port module.

Technical Specifications

- **Dimensions and Weight:**

- **Height:** 86.5 mm (3.4 inches)
- **Width (with rack latches):** 482.1 mm (19.0 inches)
- **Width (without rack latches):** 445.0 mm (17.5 inches)
- **Depth:** 763.7 mm (30.1 inches)
- **Weight:** up to 38.8 kg (85.5 lb)
- **Processor:** Supports (depending on the model):
  - Two 3rd Gen Intel® Xeon® scalable processors
  - Designed for Land Grid Array (LGA) 4189 socket
  - Scalable up to 40 cores per socket

    For a list of supported processors, see the Lenovo ServerProven Web site:

    https://static.lenovo.com/us/en/serverproven/index.shtml
- **Memory:**
  - **Slots:** 32 DIMM slots
  - **Minimum:** 16 GB
  - **Maximum:** 8 TB (system memory)
  - **Type (depending on the model):**
    - TruDDR4 3200, dual-rank, 16 GB/32 GB/64 GB RDIMM
    - TruDDR4 3200, quad-rank, 128 GB 3DS RDIMM
    - TruDDR4 2933, octal-rank, 256 GB 3DS RDIMM
    - TruDDR4 3200, 128 GB/256 GB/512 GB PMEMs
  - **Note:** Operating speed and total memory capacity depend on the processor model and UEFI settings.
- **Storage:** Supports (depending on the installed drive backplanes):
  - **Front bays:**
    - Up to 24 x 2.5-inch SAS/SATA/NVMe drives
    - Up to 12 x 3.5-inch SAS/SATA/NVMe drives
  - **Middle bays:**
    - Up to 8 x 2.5-inch SAS/SATA/NVMe drives
    - Up to 4 x 3.5-inch SAS/SATA drives
  - **Rear bays:**
    - Up to 8 x 2.5-inch SAS/SATA drives
    - Up to 4 x 3.5-inch SAS/SATA drives
    - Up to 2 x 7mm drives
  - Up to two internal M.2 drives
- **Networking**
  - One XClarity Controller network connector
  - Ethernet connectors on OCP 3.0 Ethernet adapter

Setting up the system

Follow the below steps to set up the system:

1. Install the required server components.
2. Install the server into the rack.
3. Connect the server to power.

4. Connect the server to the network.

5. Turn on the server.

6. Configure the server.

Note: For detailed information about installing hardware options and configuring the server, visit the following website: **http://thinksystem.lenovofiles.com/help/topic/SR650V2/introduction.html**

Product Usage Instructions

After setting up the system, use the following information for product usage:

- Use the LCD diagnostics panel, network activity LED, system error LED, VGA connector, USB 3 (5 Gbps) connectors, and XClarity Controller network connector as needed for system monitoring and management.
- Utilize the available drive bays and PCIe slots as necessary for storage and expansion.
- Note that processor and memory options may impact operating speed and total memory capacity.

For further information or assistance, refer to the user manual or contact customer support.
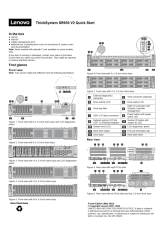
Where to go for support

Link	QR Code
Lenovo Press (Product guides and white papers) **https://lenovopress.com/**	
Lenovo ThinkSystem forum **https://forums.lenovo.com/t5/Data center-Systems/ct-p/sv_eg**	
Lenovo Support – SR650 V2 (including drivers and software) **https://datacentersupport.lenovo. com/products/servers/thinksyste m/sr650 v2**	
Lenovo Product Security Advisories **https://support.lenovo.com/us/en/ product_security/home**	
Lenovo ServerProven (Compatibility information) **https://static.lenovo.com/us/e n/serverproven/index.shtml**	

Documents / Resources

	Lenovo SR650V2 ThinkSystem Server [pdf] User Guide SR650V2 ThinkSystem Server, SR650V2, ThinkSystem Server, Server

References

- **ThinkSystem SR650 V2 (7Z72 and 7Z73) | ThinkSystem SR650V2 | Lenovo Docs**

- L **English Community-Lenovo Community**
- L **Lenovo Press**
- L **ServerProven**
- L **Lenovo Support | Drivers, Troubleshooting, Warranty, Repair | Lenovo Support US**