In the box

- Server
- Rail kit box*, including the rail kit and documentation
- Cable management arm*
- Material box, including accessory kit, power cords*, and documentation

Note: Items marked with asterisk (*) are available on some models.

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.
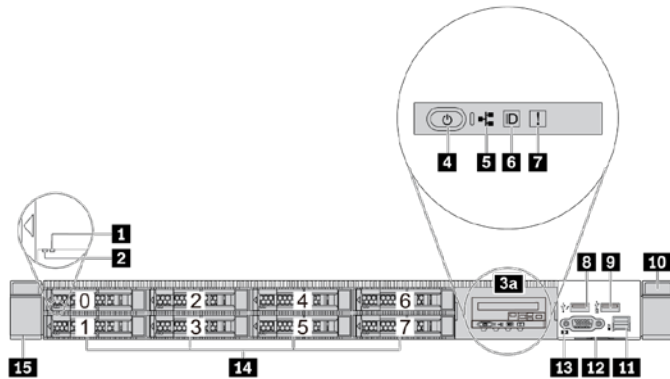

Figure 1. Server model with 8 x 2.5-inch drive bays and pull-out LCD diagnostics panel

Figure 2. Server model with 8 x 2.5-inch drive bays

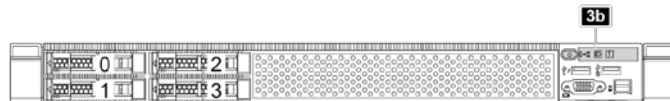*Figure 3. Server model with 10 x 2.5-inch drive bays*

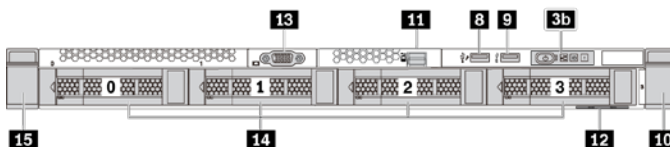*Figure 4. Server model with 4 x 2.5-inch drive bays*

Figure 5. Server model with 4 x 3.5-inch drive bays

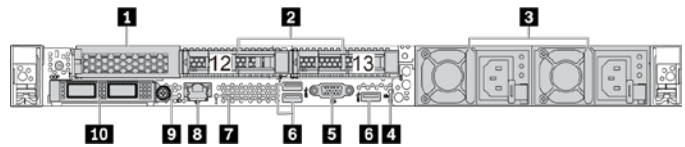|			
1	Drive status LED	**2**	Drive activity LED
3a	LCD diagnostics panel	**3b**	Diagnostics panel
4	Power button with power status LED	**5**	Network activity LED (for OCP 3.0 Ethernet adapter)
6	System ID button with system ID LED	**7**	System error LED
8	USB 2.0 connector with XClarity Controller manangement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

Rear view:

Figure 6. Rear view with one PCIe slot and two 2.5-inch rear drive bays
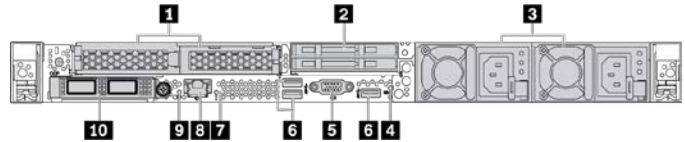

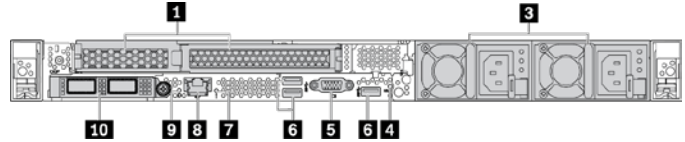*Figure 7. Rear view with two PCIe slots and two 7mm rear drive bays*
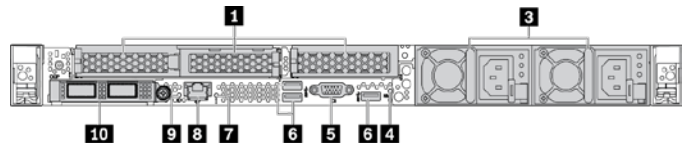

Figure 8. Rear view with two PCIe slots

Figure 9. Rear view with three PCIe slots

1	PCIe slots	**2**	Rear drive bays
3	Power supplies	**4**	NMI button
5	VGA connector	**6**	USB 3 (5 Gbps) connectors
7	System error LED	**8**	XClarity Controller network connector
9	System ID LED	**10**	Ethernet connectors on OCP 3.0 Ethernet adapter (optional)

Setting 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.

For detailed information about installing hardware options and configuring the server, see the following Web site:
http://thinksystem.lenovofiles.com/help/topic/7d2x/introduction.html

Technical specifications

Dimensions and weight

- Height: 43.0 mm (1.7 inches)
- Width:
  - With rack latches: 481.7 mm (19.0 inches)
  - Without rack latches: 445.0 mm (17.5 inches)
- Depth: 771.8 mm (30.4 inches)

  Note: The depth is measured with rack latches installed, but without the security bezel installed.
- Weight: up to 20.2 kg (44.6 lb)

Processor

Supports (depending on the model):
- Two AMD® EPYC™ processors (7002 or 7003 series)
- Designed for Land Grid Array (LGA) 4094 (SP3) socket
- Scalable up to 64 cores per socket, 128 cores in total

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
- Type (depending on the model):
  - TruDDR4 3200, 2R, 16/32/64 GB RDIMM
  - TruDDR4 3200/2933, 2S2R/2S4R, 128/256 GB 3DS RDIMM

Note: Operating speed and total memory capacity depend on the processor model and UEFI settings.

Storage

Supports (depending on the model and installed drive backplanes):
- Front bays:
  - Up to 10 x 2.5-inch SAS/SATA/NVMe drives
  - Up to 4 x 3.5-inch SAS/SATA/NVMe drives
- Rear bays:
  - Up to 2 x 2.5-inch SAS/SATA/NVMe 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

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/Datacenter-Systems/ct-p/sv_eg	
	Lenovo Support – SR645 (including drivers and software) https://datacentersupport.lenovo.com/us/en/products/servers/thinksystem/sr645/7d2x	
	Lenovo Product Security Advisories https://support.lenovo.com/us/en/product_security/home	
	Lenovo ServerProven (Compatibility information) http://www.lenovo.com/us/en/serverproven/	