LENOVO

ThinkSystem SD650 V2/SD650-N V2 Neptune DWC Trays and DW612 Neptune DWC Enclosure
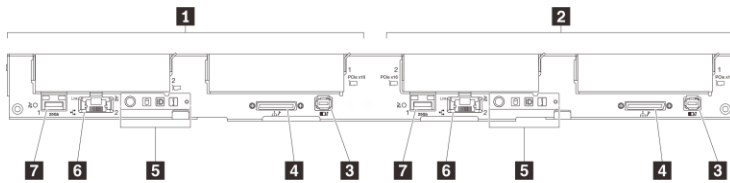
The shipping box contains the following items:

- DW612 Neptune DWC Enclosure
- SD650 V2 or SD650-N V2 Neptune DWC Trays (up to six, installed in the enclosure)
- Material box, including printed documentation

If any item is missing or damaged, contact local service. Make sure to keep the proof of purchase and packing materials. They might be required for warranty service.
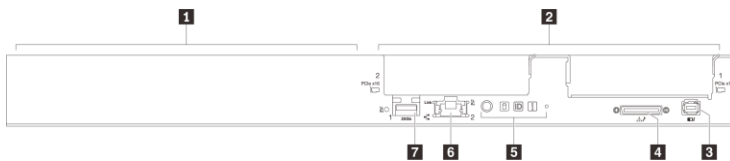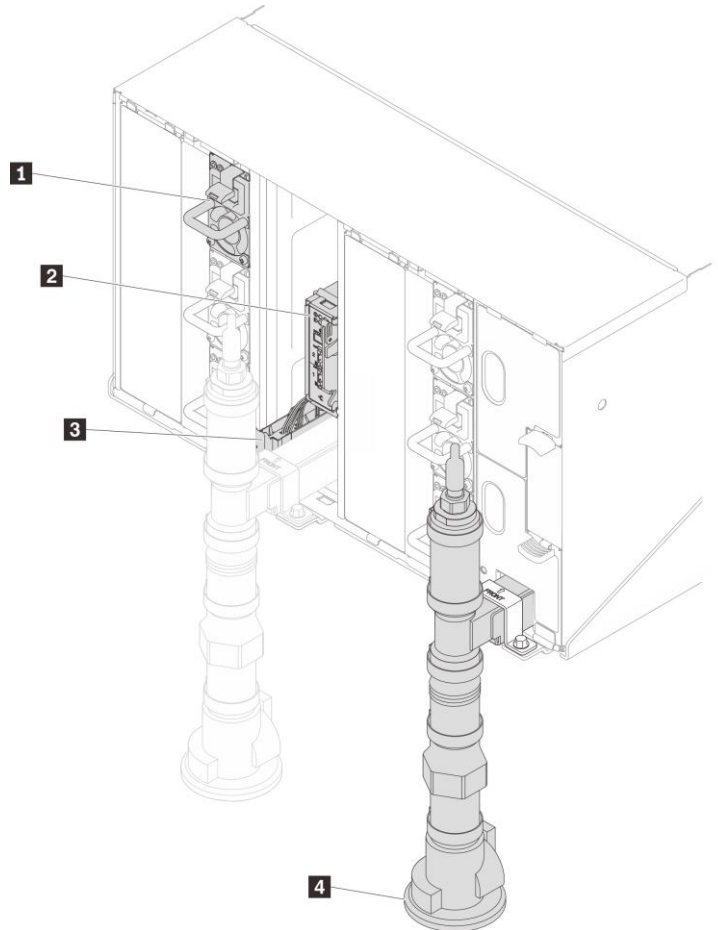
First glance

SD650 V2 tray front view:

1	Left node (odd bay numbers)	**5**	Front operator panel
2	Right node (even bay numbers)	**6**	1 Gb RJ45 Ethernet port with share-NIC feature for Lenovo XClarity Controller
3	External LCD diagnostics handset connector	**7**	25 Gb SFP28 Ethernet port with share-NIC feature for Lenovo XClarity Controller
4	KVM breakout cable connector		

SD650-N V2 tray front view:

1	GPU node/Left node (odd bay numbers)	**5**	Front operator panel
2	Compute node/Right node (even bay numbers)	**6**	1 Gb RJ45 Ethernet port with share-NIC feature for Lenovo XClarity Controller
3	External LCD diagnostics handset connector	**7**	25 Gb SFP28 Ethernet port with share-NIC feature for Lenovo XClarity Controller
4	KVM breakout cable connector		

Enclosure rear view:

1	Power supply	**3**	Drip sensor assembly
2	System management module 2	**4**	Manifold

Setting up the System

1. Install the required solution components.
2. Install the enclosure into the rack.
   See the *Rack Installation Guide* provided with the rail kit.
3. Connect the cables.
4. Connect the management controller to the network.
5. Power on the nodes.
6. Configure the system.

For detailed information about installing hardware options and configuring the system, see the following website:
http://thinksystem.lenovofiles.com/help/topic/SD650V2/introduction.html

Reduce| Reuse| Recycle

Technical specifications

Dimensions and weight
- 6U enclosure
  - Height: 263.3 mm (10.37 inches)
  - Depth: 930.6mm (36.64 inches)
  - Width: 447 mm (17.6 inches)
  - Weight:
    - Empty enclosure (with midplane and cables): approximately 23.6 kg (52.04 lbs)
    - Fully configured (stand-alone):
      - Enclosure with six SD650 V2 trays: approximately 156.54 kg (345.17 lbs)
      - Enclosure with six SD650-N V2 trays: approximately 168.94kg (372.51 lbs)
- Tray
  - Height: 41 mm (1.6 inches)
  - Depth: 693.2 mm (27.29 inches)
  - Width: 437.5 mm (17.22 inches)
  - Weight:
    - SD650 V2 trays: 20.67 kg (45.58 lbs)
    - SD650-N V2 trays: 22.05kg (48.62 lbs)

Processor
- 3rd Gen Intel® Xeon® Scalable processors

Memory
- Minimum:
  - SD650 V2 compute node: 256 GB per node
  - SD650-N V2 compute node: 512 GB per node
- Maximum: 2048 GB per node
- DIMM types: PC4-25600 (dual-rank), 3200 MT/s, error correcting code (ECC), double-data- rate 4 (DDR4) registered DIMM (RDIMM)
- Slots: 16 DIMM slots per node

Node Storage bays (depending on the model):
- Supports up to two 2.5-inch 7mm simple-swap Serial ATA (SATA)/Non-Volatile Memory express (NVMe) solid-state drives per node.
- Supports up to one 2.5-inch 15mm simple-swap Serial ATA (SATA)/Non-Volatile Memory express (NVMe) solid-state drive per node.

Where to go for support

Link		QR Code
	Lenovo Press (Product guides and white papers) https://lenovopress.com/	
	Lenovo Datacenter Systems Forums https://forums.lenovo.com/t5/Datacenter-Systems/ct-p/sv_eg	
	Lenovo Support - SD650 V2/ SD650-N V2 (including drivers and software) http://datacentersupport.lenovo.com/products/servers/thinksystem/SD650v2	
	Lenovo Product Security Advisories http://support.lenovo.com/us/en/product_security/home	
	Lenovo Server Proven (Compatibility information) https://static.lenovo.com/us/en/serverproven/index.shtml	