

# ThinkAgile HX Series with 4<sup>th</sup> Generation Intel Xeon Scalable processors

Overview and system configurations

**Lenovo**

# Specification overview

Model	HX630 V3 ROBO	HX630 V3	HX650 V3 Storage	HX650 V3
Base platform	SR630 V3	SR630 V3	SR650 V3	SR650 V3
Processor	Two Intel Xeon SP Gen 4	Two Intel Xeon SP Gen 4	Two Intel Xeon SP Gen 4	Two Intel Xeon SP Gen 4
Memory	64 GB to 4 TB	64 GB to 8 TB	64 GB to 8 TB	64 GB to 8 TB
Drives (max)	Four front 3.5-inch and two rear 2.5-inch drives	10 front 2.5-inch and two rear 2.5-inch drives	12 front 3.5-inch and four rear 2.5-inch drives	16 2.5-inch or 24 2.5-inch drives
SSD options	1.92 TB to 7.68 TB	1.92 TB to 7.68 TB	1.92 TB to 7.68 TB	1.92 TB to 7.68 TB
HDD options	4 TB to 20 TB	none	4 T to 20 TB	none
GPU	none	none	none	Up to three double-width GPUs or seven single-width GPUs.
Network	Two to four 25 Gb ports	Two to four 25 Gb ports	Two to four 25 Gb ports	Two to four 25 Gb ports

**Note:** For the latest ThinkSystem hardware specifications and features, refer to the [Lenovo Press](#) website.

## Supported GPUs

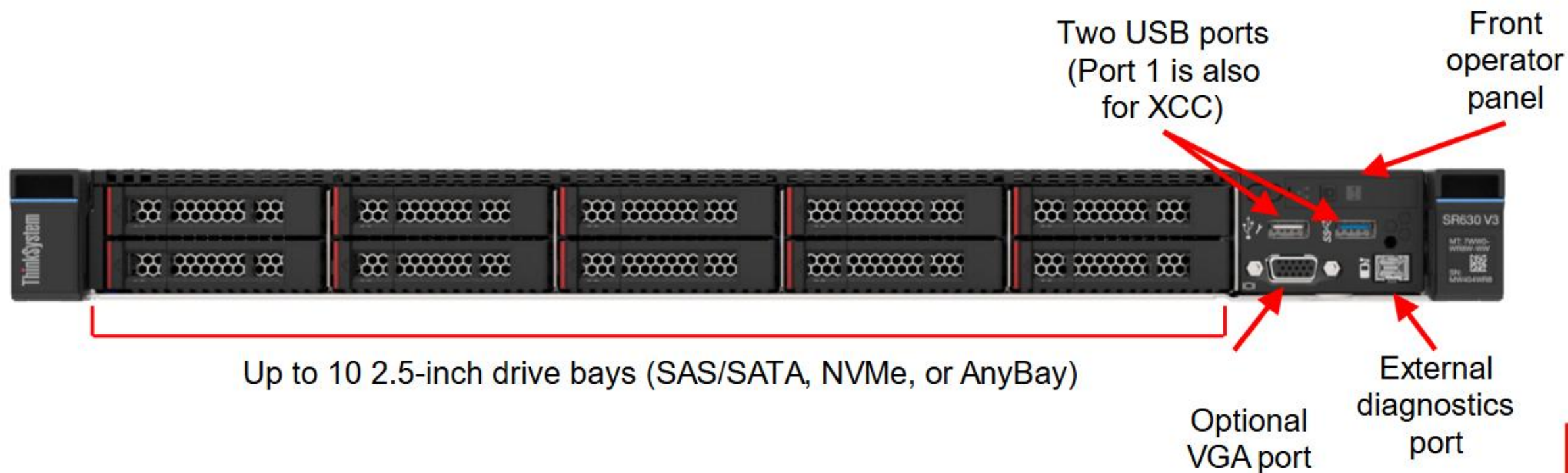
GPU	Feature code	HX630 V3 maximum support	HX650 V3 – 16 drives maximum support	HX650 V3 – 24 drives maximum support
ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU	BEL4	0	3	0
ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	BQZQ	0	3	0
ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	BNFE	0	3	2
ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	BQZU	0	3	2
ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU	BJHG	0	3	2
ThinkSystem NVIDIA A100 80GB PCIe Gen4 Passive GPU w/o CEC	BLK1	0	3	2
ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	BQZT	1	7	4

**Note:** For the latest list of supported GPUs, refer to the [Lenovo Press](#) website.

## System configuration changes

- NVMe drives are available on the HX630 V3 and HX650 V3
  - The HX630 V3 supports up to 12 NVMe drives
  - The HX650 V3 configuration with 24 drives supports two to eight NVMe drives with or without SAS/SATA SSDs
  - The HX650 V3 configuration with 16 SAS/SATA drives uses a CFF 440-16i card for GPUs
- The Broadcom 57504 adapter is supported
- Boot drive and adapter changes
  - The 5350 RAID adapter is supported
  - The HX630 V3 and HX650 V3 are enabled with a single-drive boot
  - The HX630 V3 cannot support M.2 boot – use a 7 mm rear drive boot kit
- 2.5-inch hard drives
  - The HX630 V3 and HX650 V3 now only use 2.5-inch all-flash drives

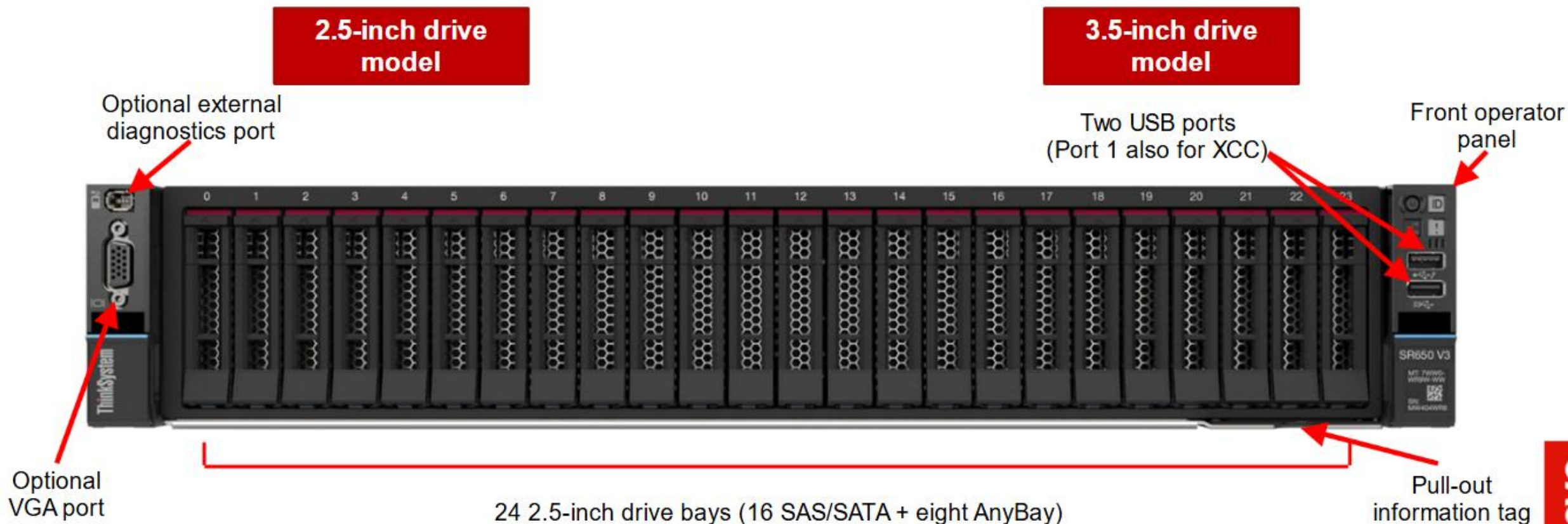
## Front view of the HX630 V3





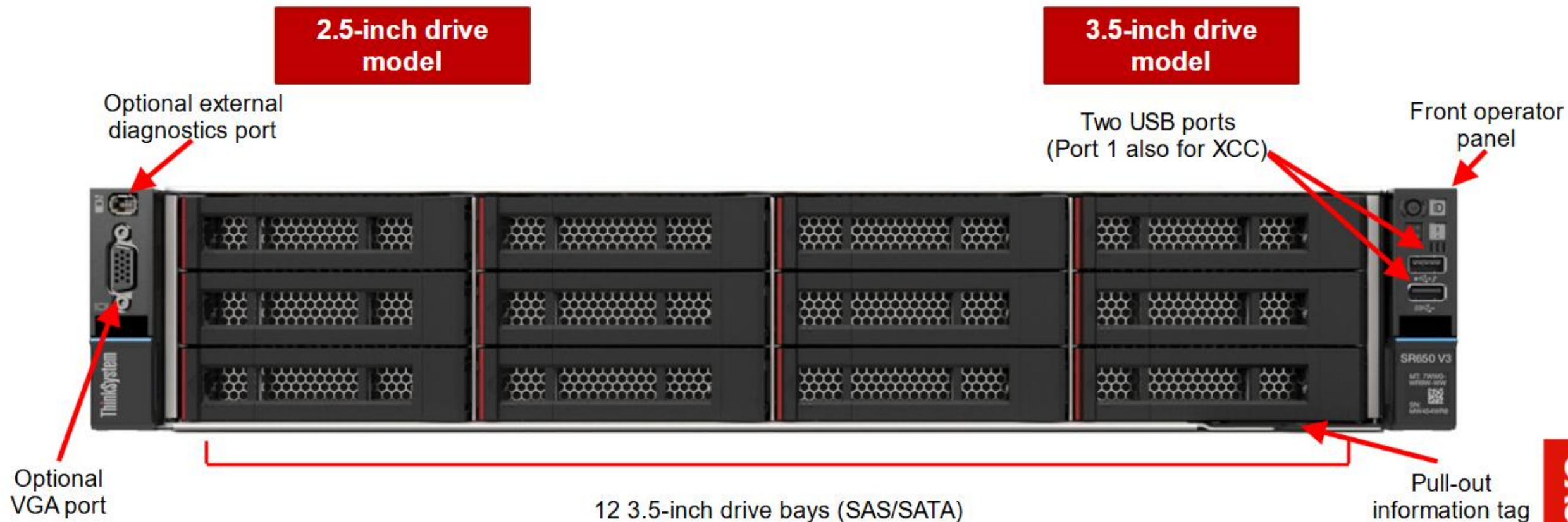
## Front views of the HX650 V3

- Click the buttons to see the 2.5-inch and 3.5-inch drive models



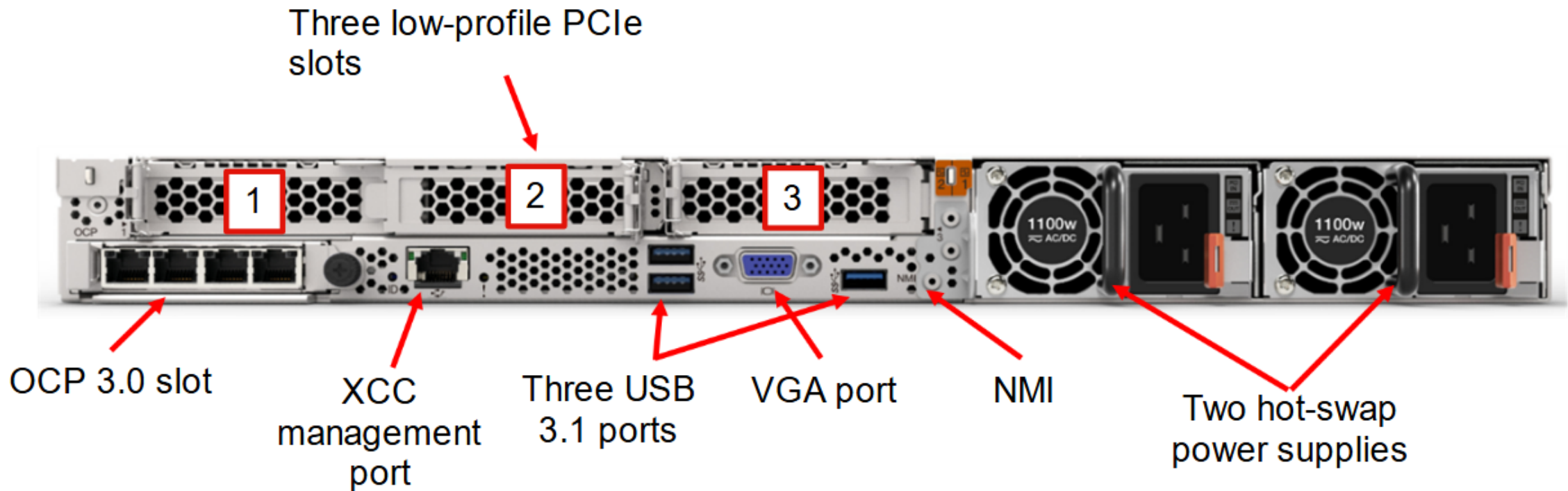
## Front views of the HX650 V3

- Click the buttons to see the 2.5-inch and 3.5-inch drive models



## Rear views of the HX630 V3

The following figure shows the rear components in a system configured with three PCIe slots. Slots 2 and 3 can be used as one FHHL PCIe slot or two 2.5-inch hot-swap drive bays. Click [HERE](#) to see these configurations.







Two PCIe slots

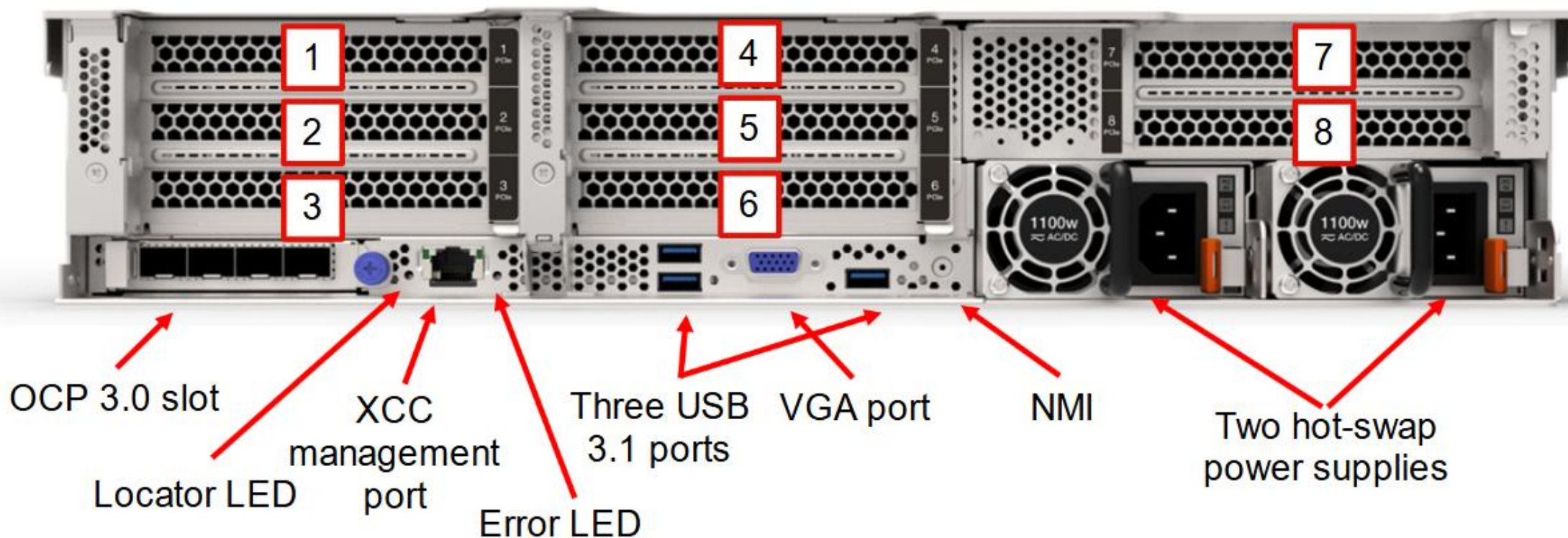


One PCIe slot and two 2.5-inch hot-swap drive



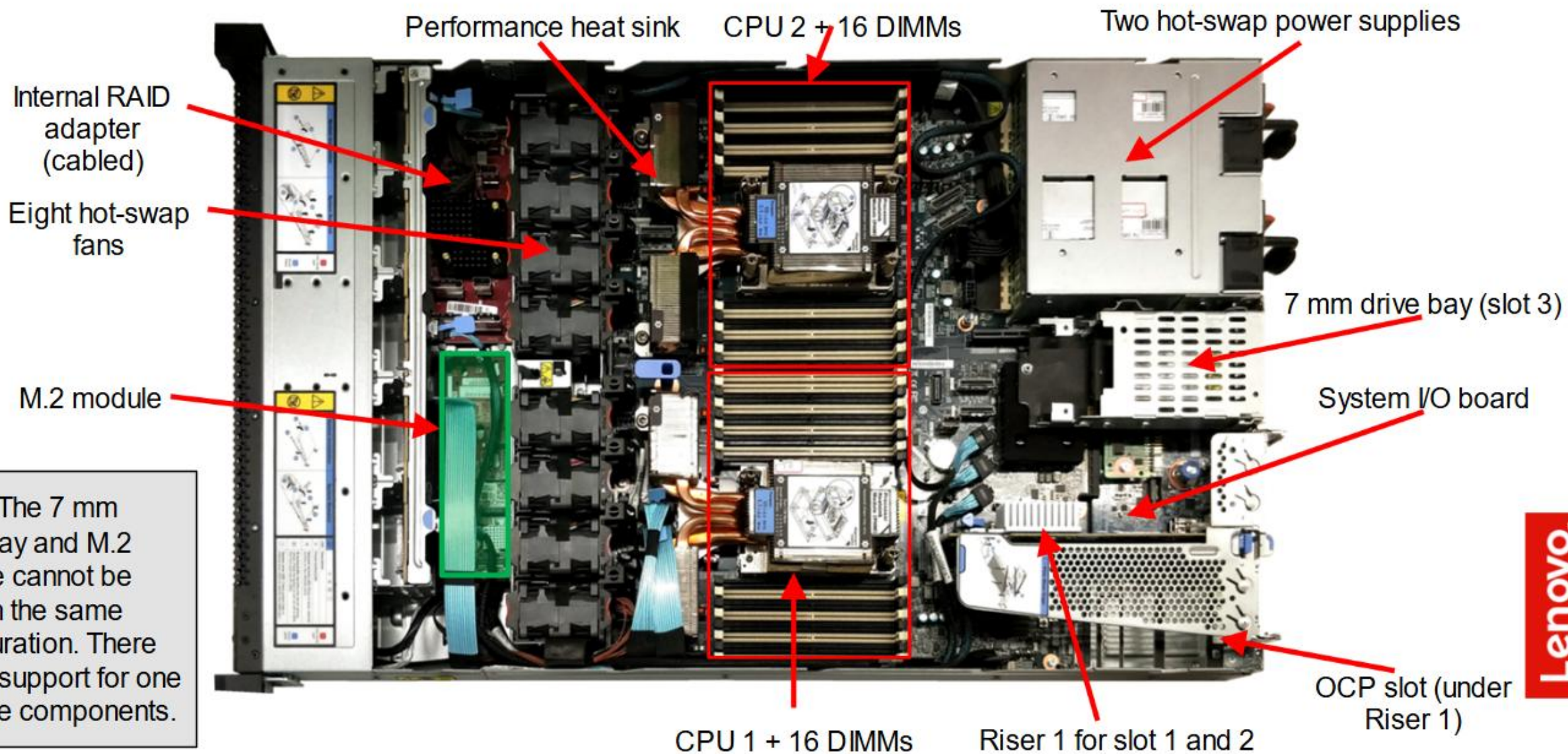
## Rear view of the HX650 V3

The following figure shows the components visible at the rear of the system. The SR650 V3 server can support configurations with eight PCIe slots.





## Inside view of the HX630 V3





## Inside view of the HX650 V3

