

ThinkAgile HX Series with 3rd Generation Intel Xeon Scalable processors

Overview and comparison

Lenovo

ThinkAgile HX Series August 2021 updates

Lenovo has released new ThinkAgile HX Series models featuring the 3rd Generation Intel Xeon Scalable processors. The new models are based on the 1U two-socket ThinkSystem SR630 V2 and 2U two-socket ThinkSystem SR650 V2 servers.

1U Appliance and Certified Node:

Model	HX1330 Appliance	HX1331 Certified Node	HX2330 Appliance	HX2331 Certified Node	HX3330 Appliance	HX3331 Certified Node
CTO	7Z85CTO1WW	7D52CTO1WW	7Z85CTO2WW	7D52CTO2WW	7Z85CTO3WW	7D52CTO3WW

2U Appliance and Certified Node:

Model	HX5530 Appliance	HX5531 Certified Node	HX7530 Appliance	HX7531 Certified Node
CTO	7Z82CTO1WW	7Z84CTO1WW	7Z72CTO2WW	7Z84CTO2WW

ThinkAgile HX Series with 3rd Generation Intel Xeon Scalable processors overview

The new ThinkAgile HX Series systems are based on the SR630 V2 and SR650 V2 and have the following features:

- Systems based on the 1U SR630 V2 support up to two single-width NVIDIA T4 GPUs, while systems based on the 2U SR650 V2 support up to seven single-width GPUs
- Support for two M.2 adapters for use as a boot RAID option
- NVMe support is only available on the HX3330, HX3331, HX7530, and HX7531 systems
 - The HX3330 and HX3331 support two or four NVMe drives with SAS/SATA SSDs, or up to twelve drives in an all-NVMe configuration
 - The HX7530 and HX7531 support two to eight NVMe drives with SAS/SATA SSDs
- Support for Intel VMD to improve NVMe serviceability
 - When replacing a system board or restoring UEFI defaults, enter the following command to enable the use of Intel VMD on HX Series with Whitley solutions:

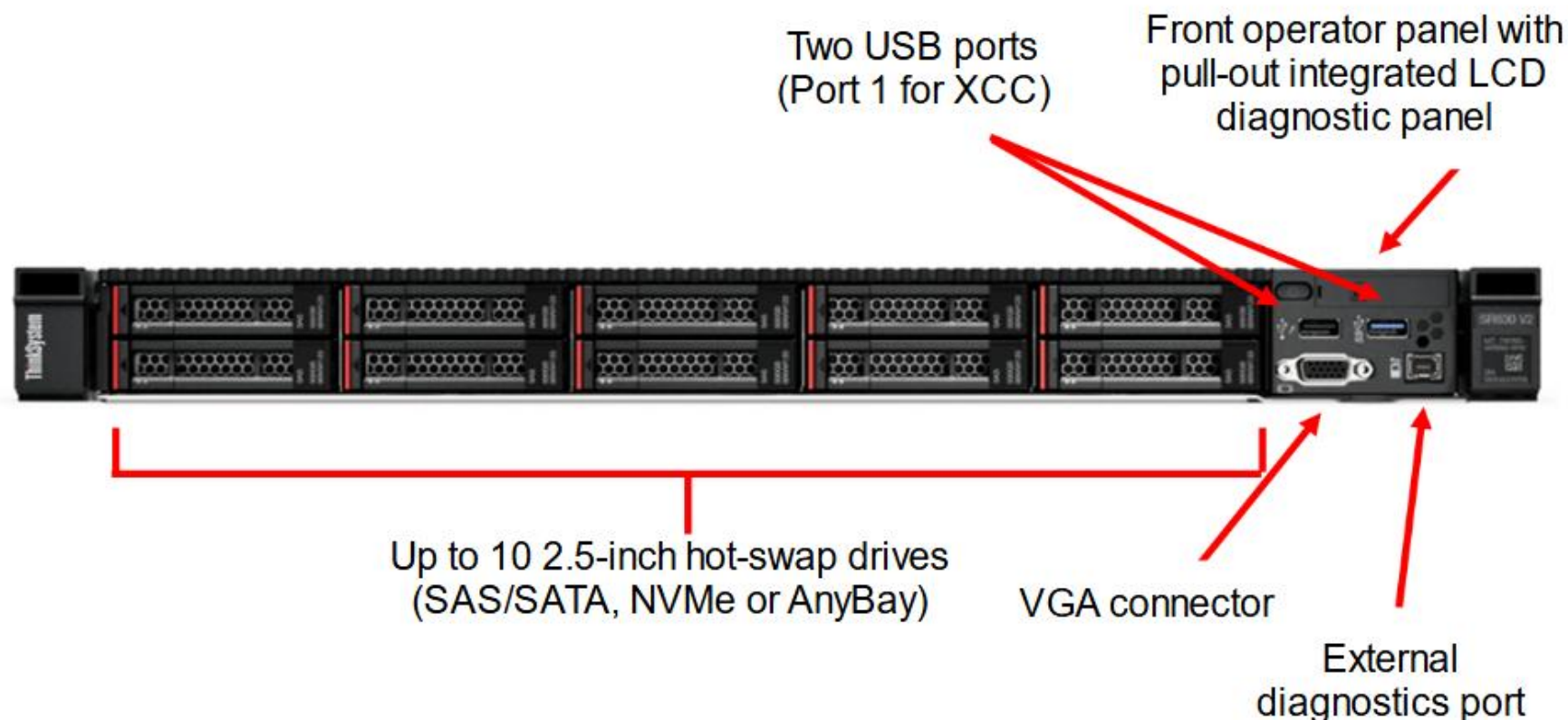
```
#OneCli.exe config set DevicesandIOPorts.VMDforDirectAssign  
Enabled --imm USERID:PASSWORD@IP
```

Front views of models based on the ThinkSystem SR630 V2

The major difference in the appearance of ThinkAgile HX Series models with 3rd Generation Intel Xeon Scalable processors are the quantity and size of hard disk drives. Click the buttons to see the details.

HX3330 and HX3331
with 2.5-inch drives

HX1330, HX1331,
HX2330, and HX2331
with 3.5-inch drives

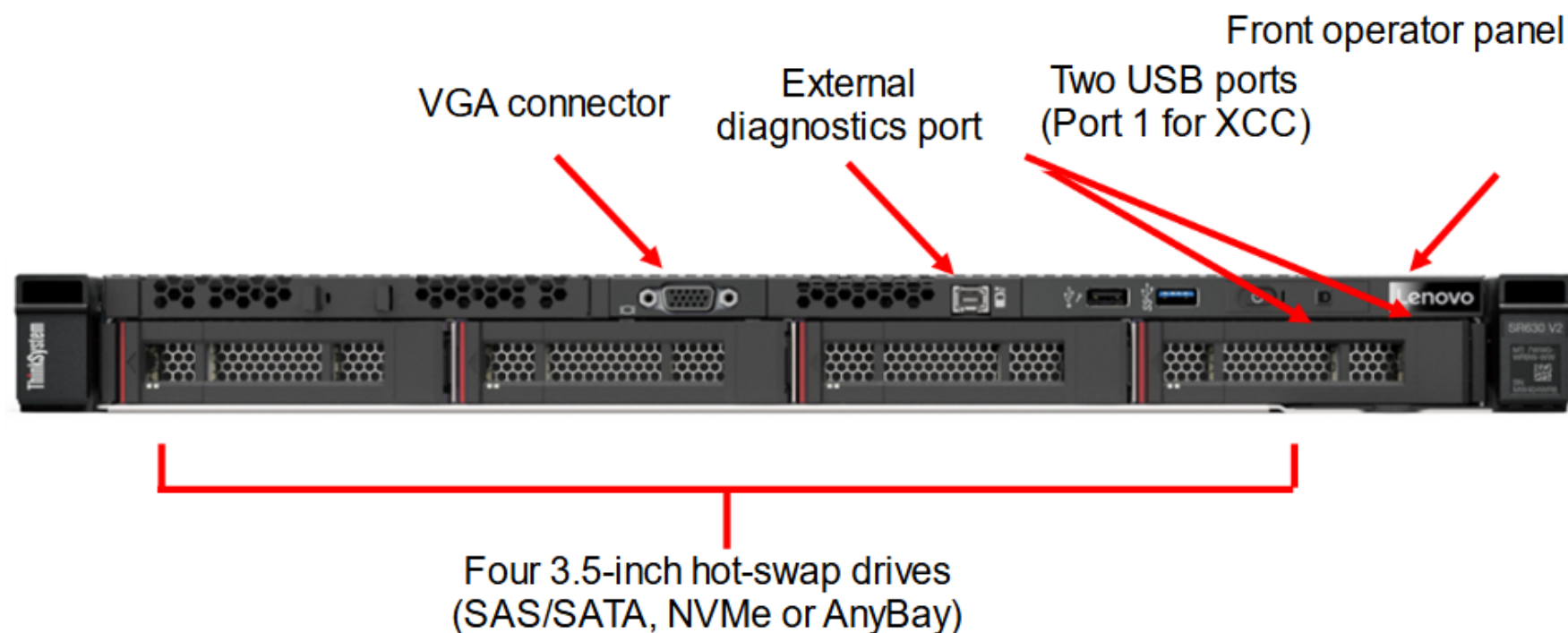


Front views of models based on the ThinkSystem SR630 V2

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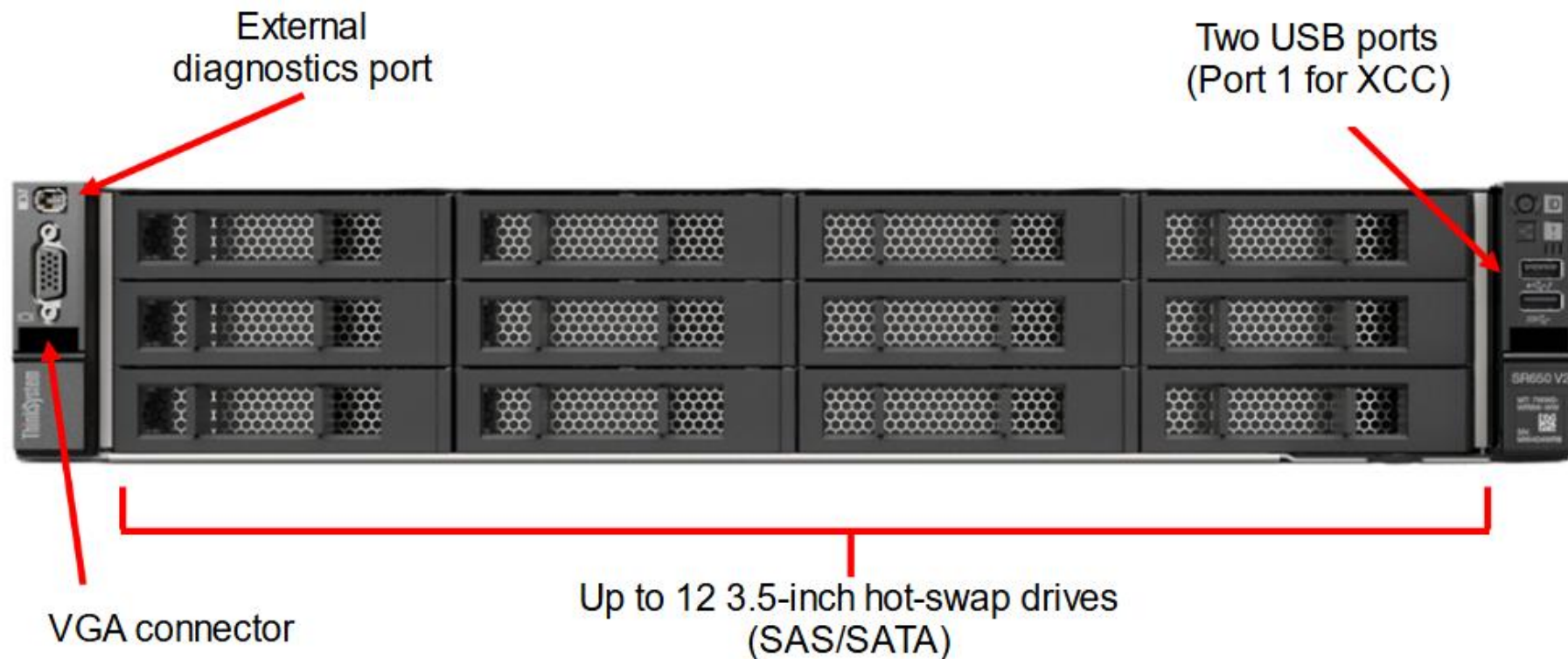


Front views of models based on the ThinkSystem SR650 V2

The major difference in the appearance of ThinkAgile HX Series models with 3rd Generation Intel Xeon Scalable processors are the quantity and size of hard disk drives. Click the buttons to see the details.

HX5530 and HX5531
with 3.5-inch drives

HX7530 and HX7531
with 2.5-inch drives

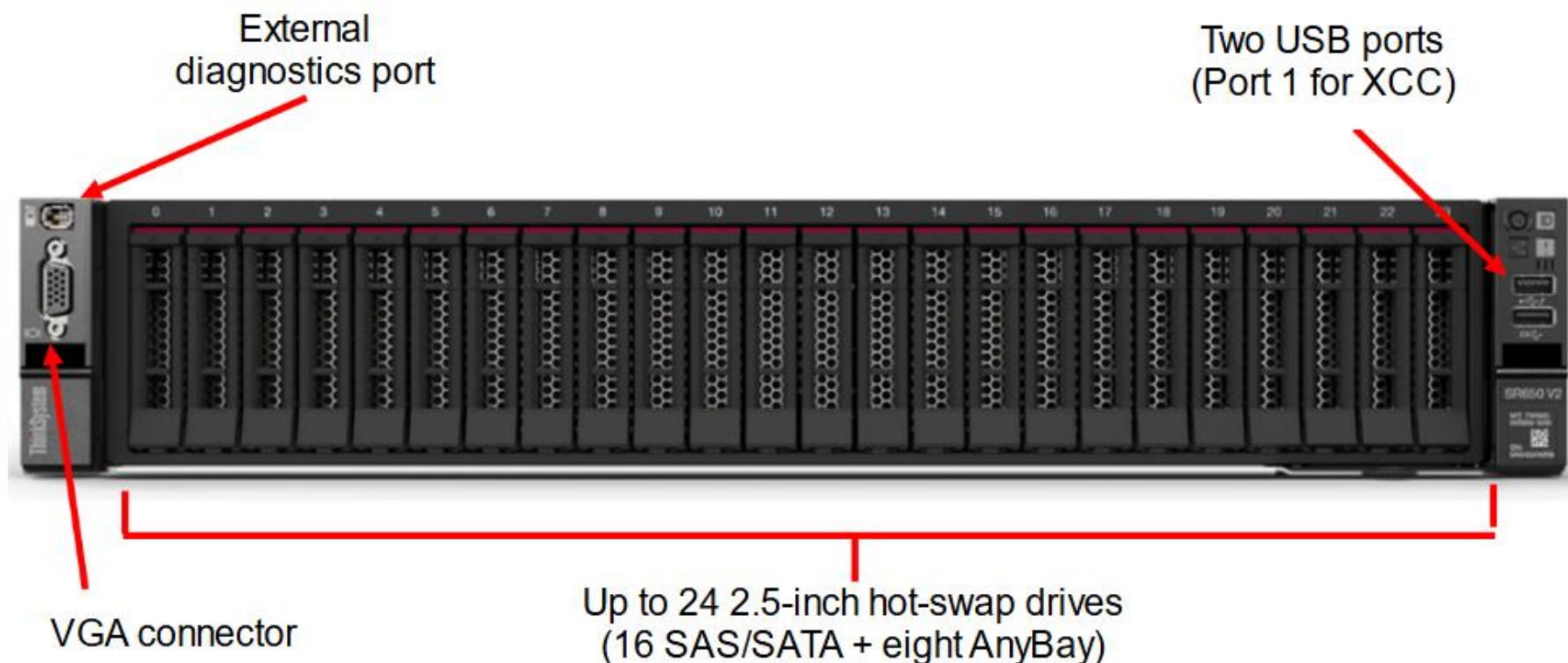


Front views of models based on the ThinkSystem SR650 V2

The major difference in the appearance of ThinkAgile HX Series models with 3rd Generation Intel Xeon Scalable processors are the quantity and size of hard disk drives. Click the buttons to see the details.

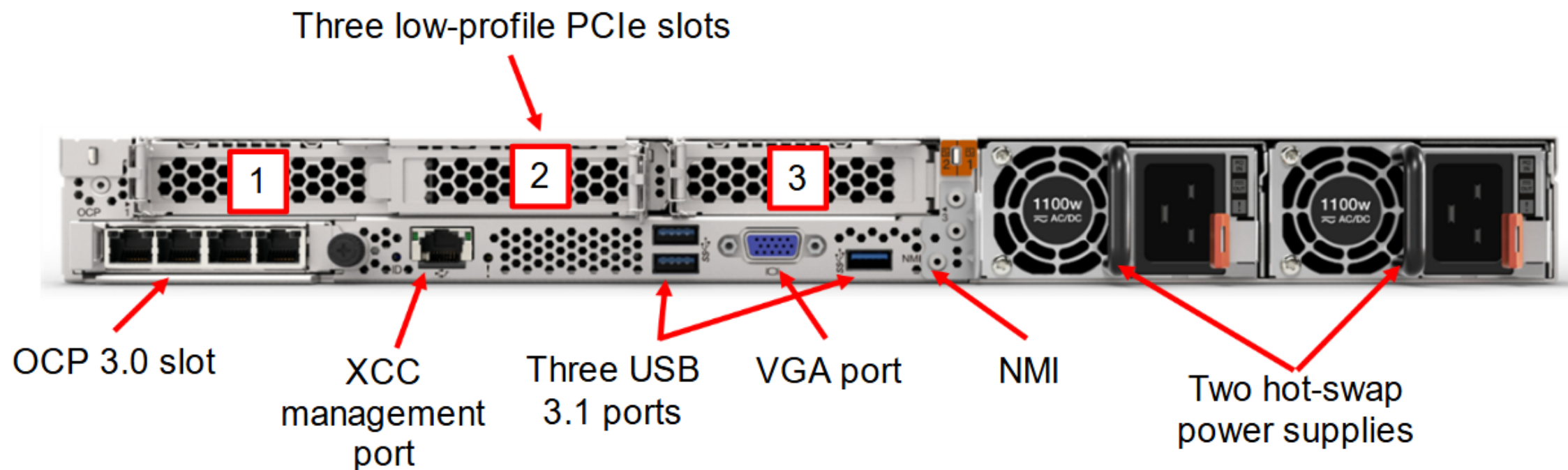
HX5530 and HX5531
with 3.5-inch drives

HX7530 and HX7531
with 2.5-inch drives



Rear views of models based on the ThinkSystem SR630 V2

The following figure shows the components visible at the rear of the system. The figure shows one configuration 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 the difference.



Rear views of models based on the ThinkSystem SR630 V2

The following figure shows the components visible at the rear of the system. The figure shows one configuration 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 the difference.

Three low-profile PCIe slots
Two PCIe slots

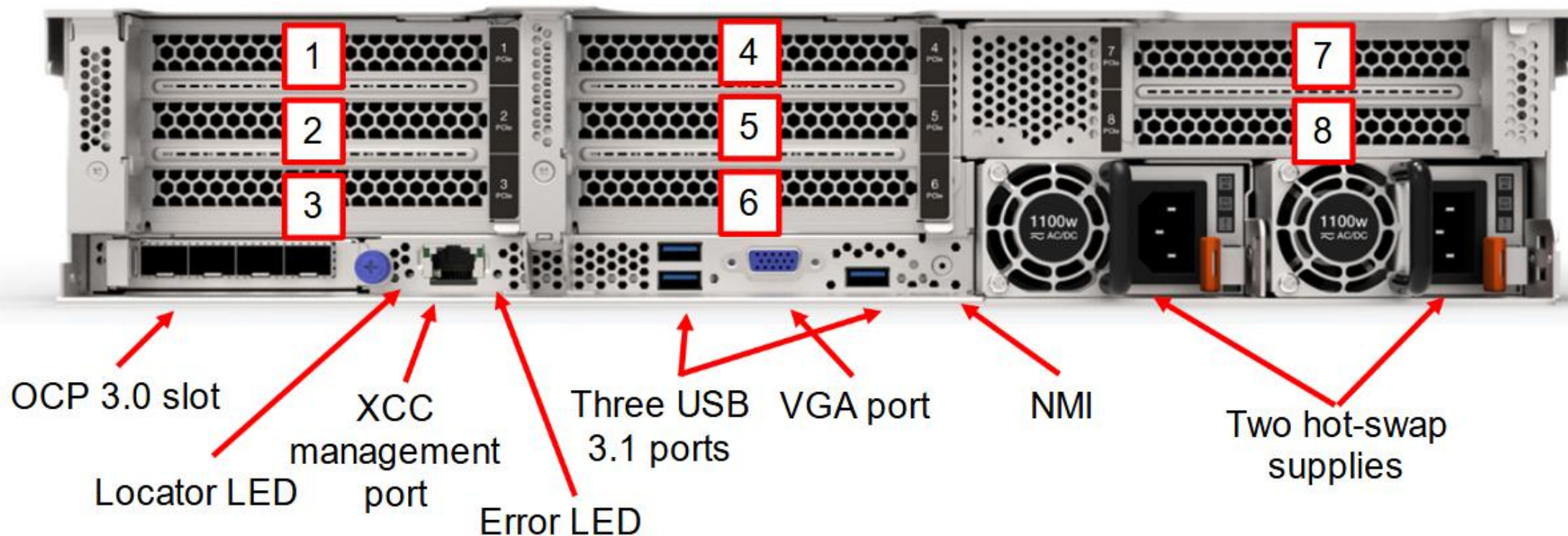


One PCIe slot and two 2.5-inch hot-swap drive bays



Rear views of models based on the ThinkSystem SR650 V2

The following figure shows the components visible at the rear of the system. The SR650 V2 server can support configurations with eight PCIe slots. Slots 7 and 8 can be used to support four 2.5-inch hot-swap drive bays. Click [here](#) to see the difference.

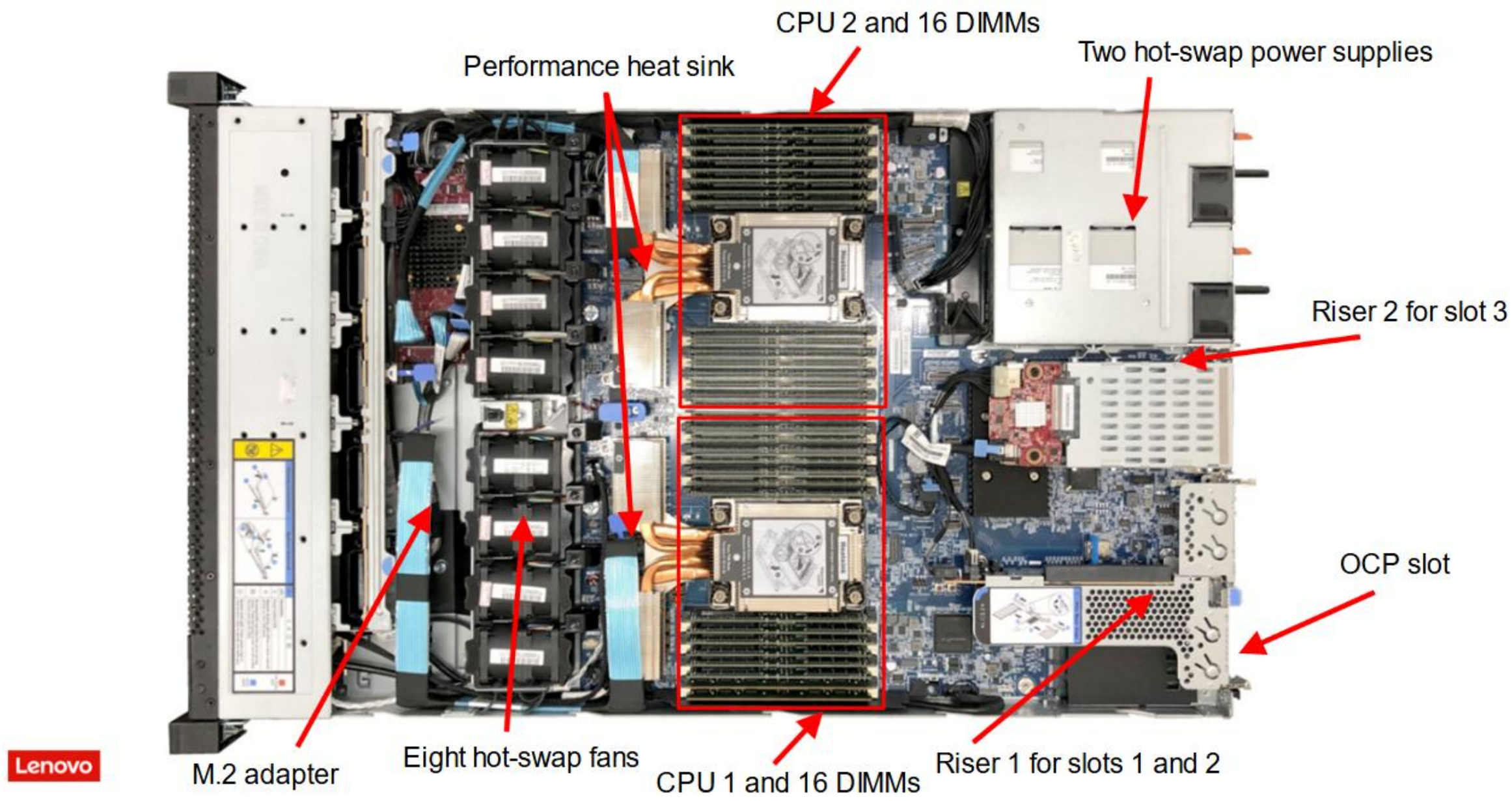


Rear views of models based on the ThinkSystem SR650 V2

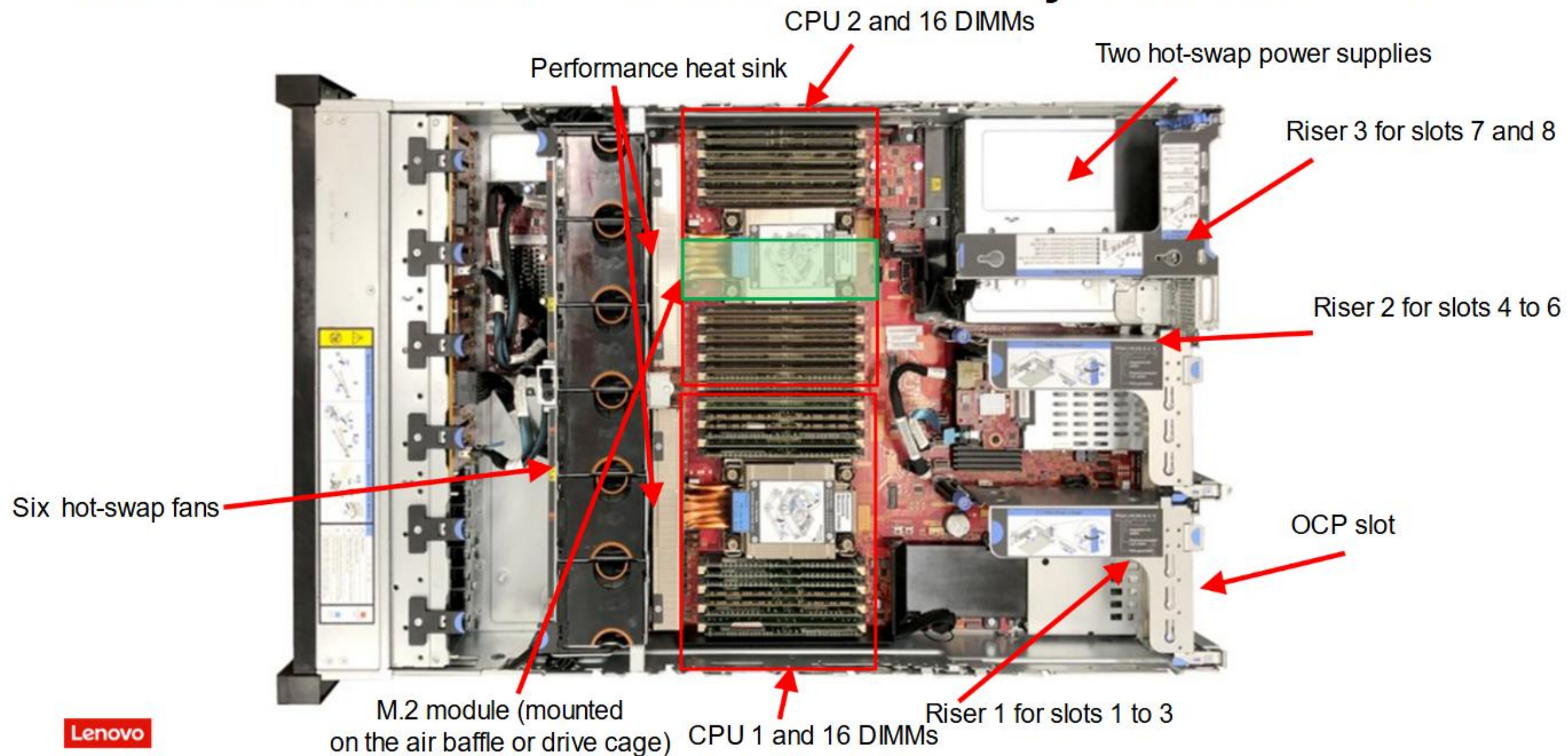
The following figure shows the components visible at the rear of the system. The SR650 V2 server can support configurations with eight PCIe slots. Slots 7 and 8 can be used to support four 2.5-inch hot-swap drive bays. Click [here](#) to see the difference.



Inside view of models based on the ThinkSystem SR630 V2



Inside view of models based on the ThinkSystem SR650 V2



Overview of specifications

Scroll down for more information

Marketing name	HX1330 and HX1331	HX2330 and HX2331	HX3330 and HX3331	HX5530 and HX5531	HX7530 and HX7531
Machine type	7Z85 (HX1330) 7D52 (HX1331)	7Z85 (HX2330) 7D52 (HX2331)	7Z85 (HX3330) 7D52 (HX3331)	7Z82 (HX5530) 7Z84 (HX5531)	7Z82 (HX7530) 7Z84 (HX7531)
CTO	CTO1WW	CTO2WW	CTO3WW	CTO1WW	CTO2WW
Platform	SR630 V2	SR630 V2	SR630 V2	SR650 V2	SR650 V2
Processor	One Gen 3 Intel Xeon SP	Two Gen 3 Intel Xeon SP	Two Gen 3 Intel Xeon SP	One or two Gen 3 Intel Xeon SP	Two Gen 3 Intel Xeon SP
Memory	16, 32, 64, or 128 DDR4 3200 MHz (64 GB to 4 TB maximum)				
Drive Bays	• Front: Four 3.5-inch	• Front: Four 3.5-inch	• Front: 10 2.5-inch SAS/SATA	• Front: 12 3.5-inch SAS/SATA bays	• Front: 16 2.5-inch SAS/SATA bays +

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

Overview of specifications

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Drive Bays	<ul style="list-style-type: none"> • Front: Four 3.5-inch SAS/SATA bays • Rear: Two 2.5-inch SAS/SATA bays (optional) 	<ul style="list-style-type: none"> • Front: Four 3.5-inch SAS/SATA bays • Rear: Two 2.5-inch SAS/SATA bays (optional) 	<ul style="list-style-type: none"> • Front: 10 2.5-inch SAS/SATA or NVMe bays • Rear: Two 2.5-inch SAS/SATA or NVMe bays (optional) 	<ul style="list-style-type: none"> • Front: 12 3.5-inch SAS/SATA bays • Rear: Four 2.5-inch SAS/SATA bays (optional) 	<ul style="list-style-type: none"> • Front: 16 2.5-inch SAS/SATA bays + eight optional 2.5-inch AnyBay • Rear: None
Drive Configuration	All Flash Hybrid	All Flash Hybrid	All Flash Hybrid	All Flash Hybrid	All Flash Hybrid
HBA	430-8i HBA	430-8i HBA	430-16i HBA	430-16i HBA	3x430-8i HBA (24 drive) 430-16i HBA (16 drive)

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GPUs	Up to one NVIDIA T4 GPUs	Up to two NVIDIA T4 GPUs	Up to two NVIDIA T4 GPUs	None	<ul style="list-style-type: none"> Two double wide 300-watt GPUs Seven single wide 75-watt GPUs
OCP Network	One OCP 3.0 adapter 10Gbase-T or 25 Gb				
PCIe network	Up to two adapters 25 Gb	Up to two adapters 25 Gb	Up to two adapters 25 Gb	Up to seven adapters 25 Gb	Up to seven adapters 25 Gb
Hypervisor	Nutanix AHV, VMware ESXi	Nutanix AHV, VMware ESXi	Nutanix AHV, VMware ESXi	Nutanix AHV, VMware ESXi	Nutanix AHV, VMware ESXi

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