

System configurations and diagrams

System block diagram and hardware configurations

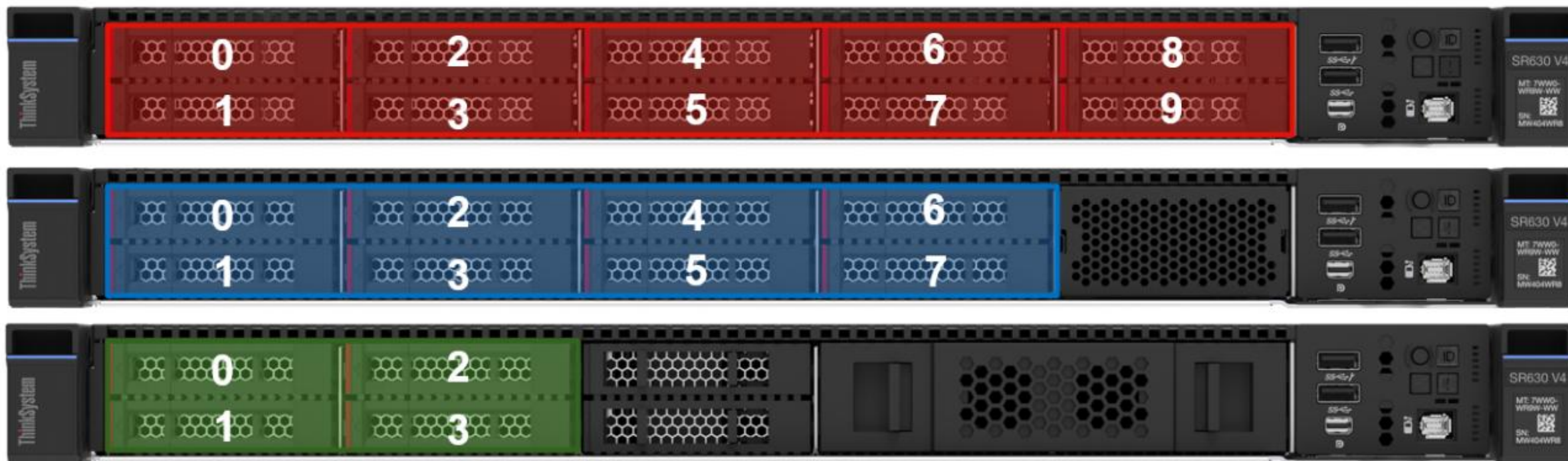
Lenovo



Front drive bay configurations – 2.5-inch drive bay

The SR630 V4 front drive bay supports the following configurations:

- Four, eight, or 10 2.5-inch drive bays



Front drive bay configurations – Front I/O

The SR630 V4 front drive bay supports the following configurations:

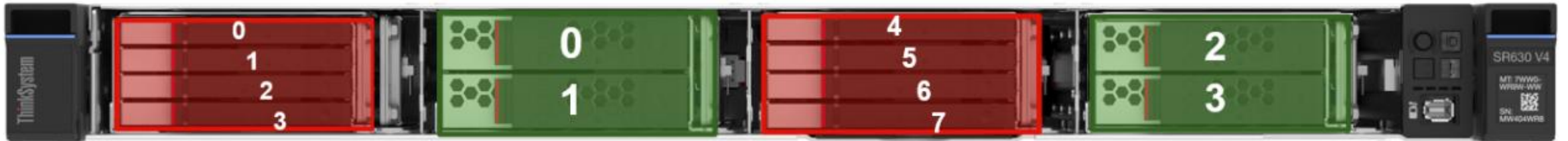
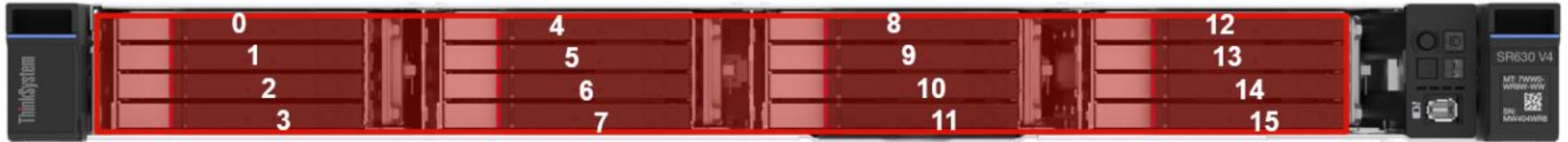
- Four 2.5-inch drive bays with the front I/O



Front drive bay configurations – EDSFF drive bays

The SR630 V4 front drive bay supports the following configurations:

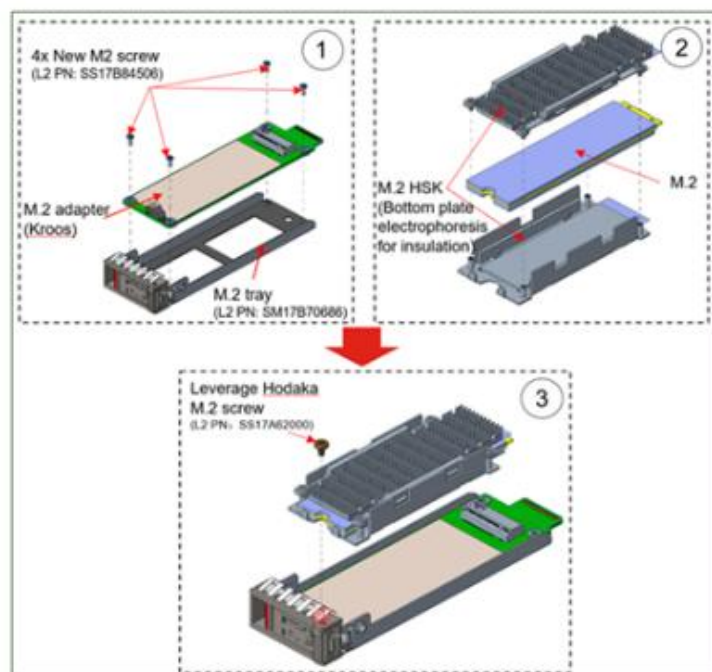
- 16 1T E3.S drive bays, eight 2T E3.S drive bays, or four 2T E3.S with eight 1T E3.S drive bays



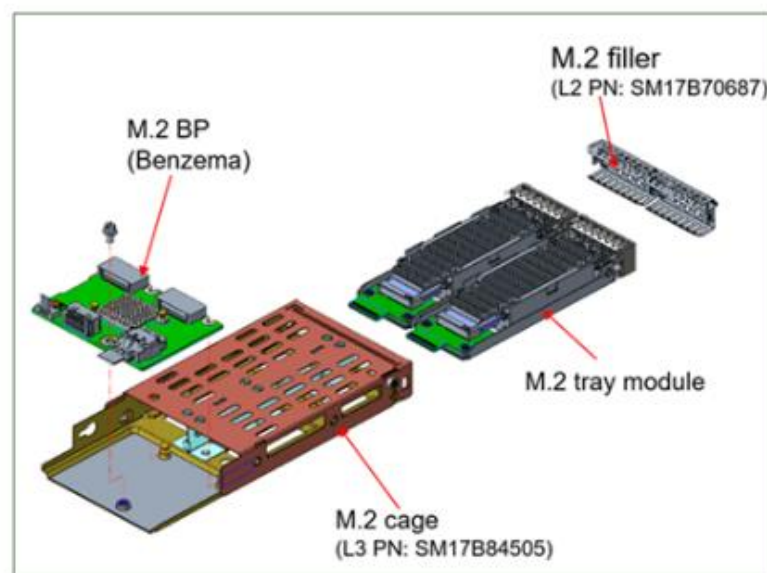
M.2 drive support

The SR630 V4 front drive bay supports the following configurations:

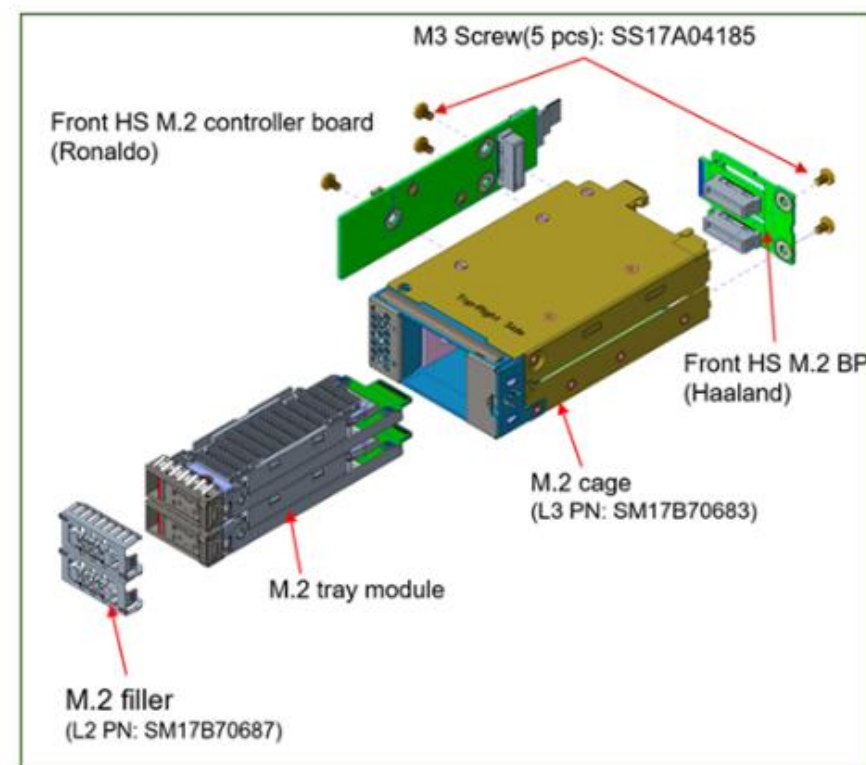
- Two internal M.2 backplanes and two M.2 SATA/NVMe drives (RAID or non-RAID)
- M.2 assembly (hot-swap interposer card and two M.2 drives)



M.2 drive assembly



Rear M.2 drive assembly



Front M.2 drive assembly

M.2 drive assembly locations

Depending on the chassis configuration, the SR630 V4 supports two M.2 drive assemblies at the front or rear.



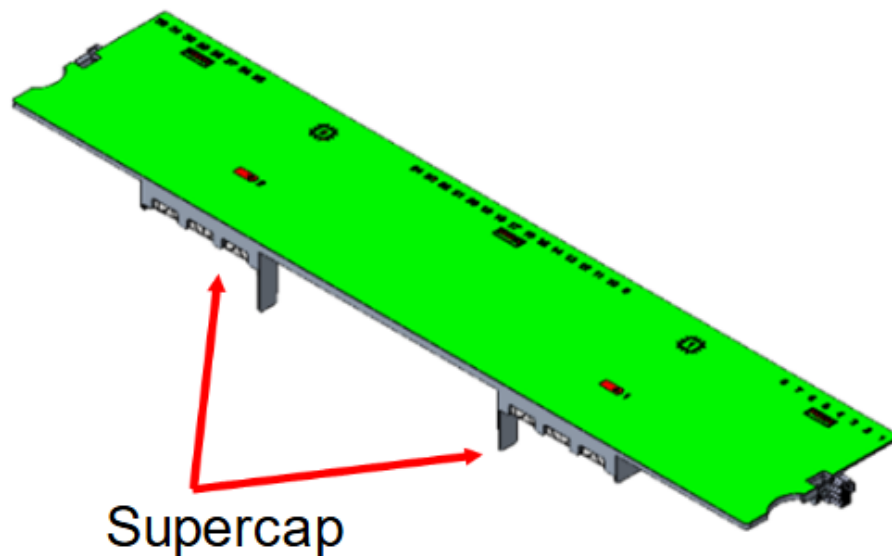
Rear drive bay configurations

The SR630 V4 supports two 2.5-inch hot-swap drive bays.



RAID flash power module location

The SR630 V4 supports up to two RAID flash power modules (supercaps). Supercaps can be located on the air baffle at the front of the chassis.

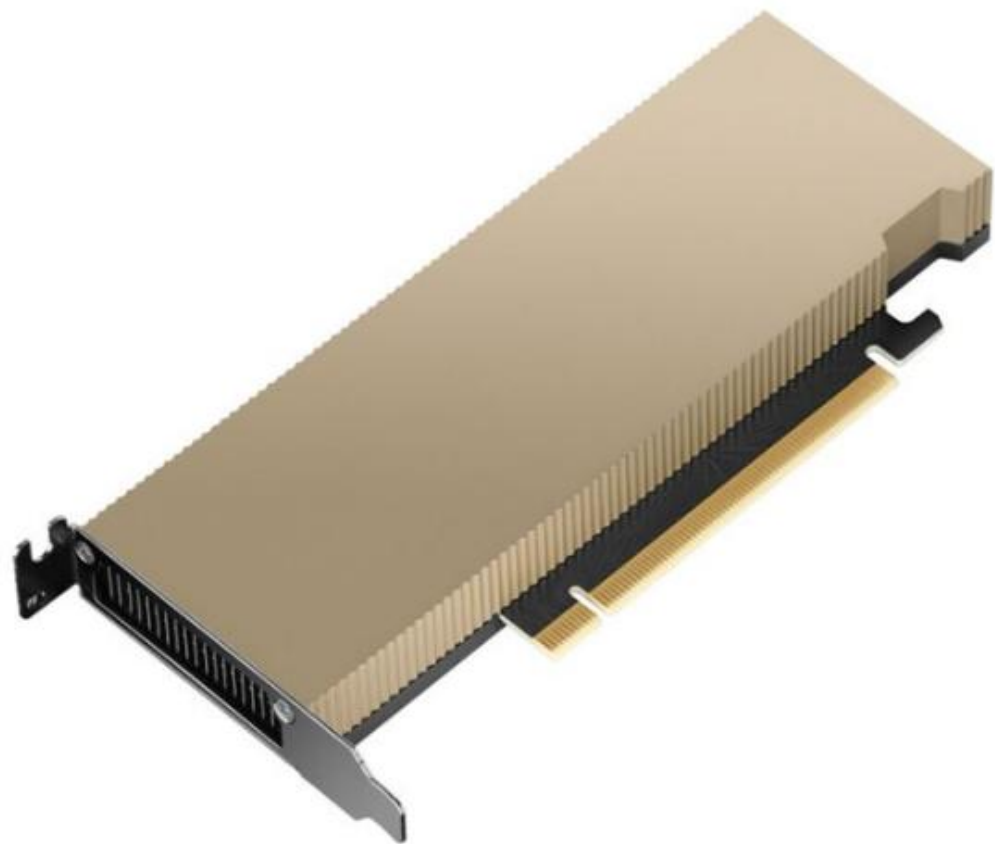


Note: The air baffle installed with the standard heat sink supports up to two supercaps. If a high-performance heat sink is used, no air baffle will be installed, and supercaps are not supported.

GPU adapters

The SR630 V4 supports up to three single width 75 W GPUs at the rear.

- ThinkSystem NVIDIA L4 24 GB PCIe Gen4 Passive GPU



Note: For the NVIDIA L4 or any other passively cooled GPU (a GPU without an integrated fan), performance fans are required.

For more information about these GPUs, refer to the [ThinkSystem GPU Summary](#).

Memory options

The SR630 V4 supports 16 DIMMs per processor. Each processor has eight memory channels with two DIMMs per channel (2DPC).

- Memory module type:
 - TruDDR5 6400MHz RDIMM: 32 GB (2Rx8)
 - TruDDR5 6400MHz 10x4 RDIMM: 32 GB (1Rx4), 64 GB (2Rx4)
- Speed: Operating speed depends on processor model and UEFI settings
 - 6400 MT/s for 1 DIMM per channel
 - 5200 MT/s for 2 DIMMs per channel (for 64 GB 10x4 RDIMMs)
- Minimum memory: 32 GB
- Maximum memory: 2 TB: 32 x 64 GB 10x4 RDIMMs

Note: For detailed memory configuration and installation rules, refer to [Memory module installation rules and order](#) section of the SR630 V4 Setup Guide.

Memory slot and channel identification

The following figure shows the layout of the memory modules and processors. Click [HERE](#) to see the memory slot and channel identification.

