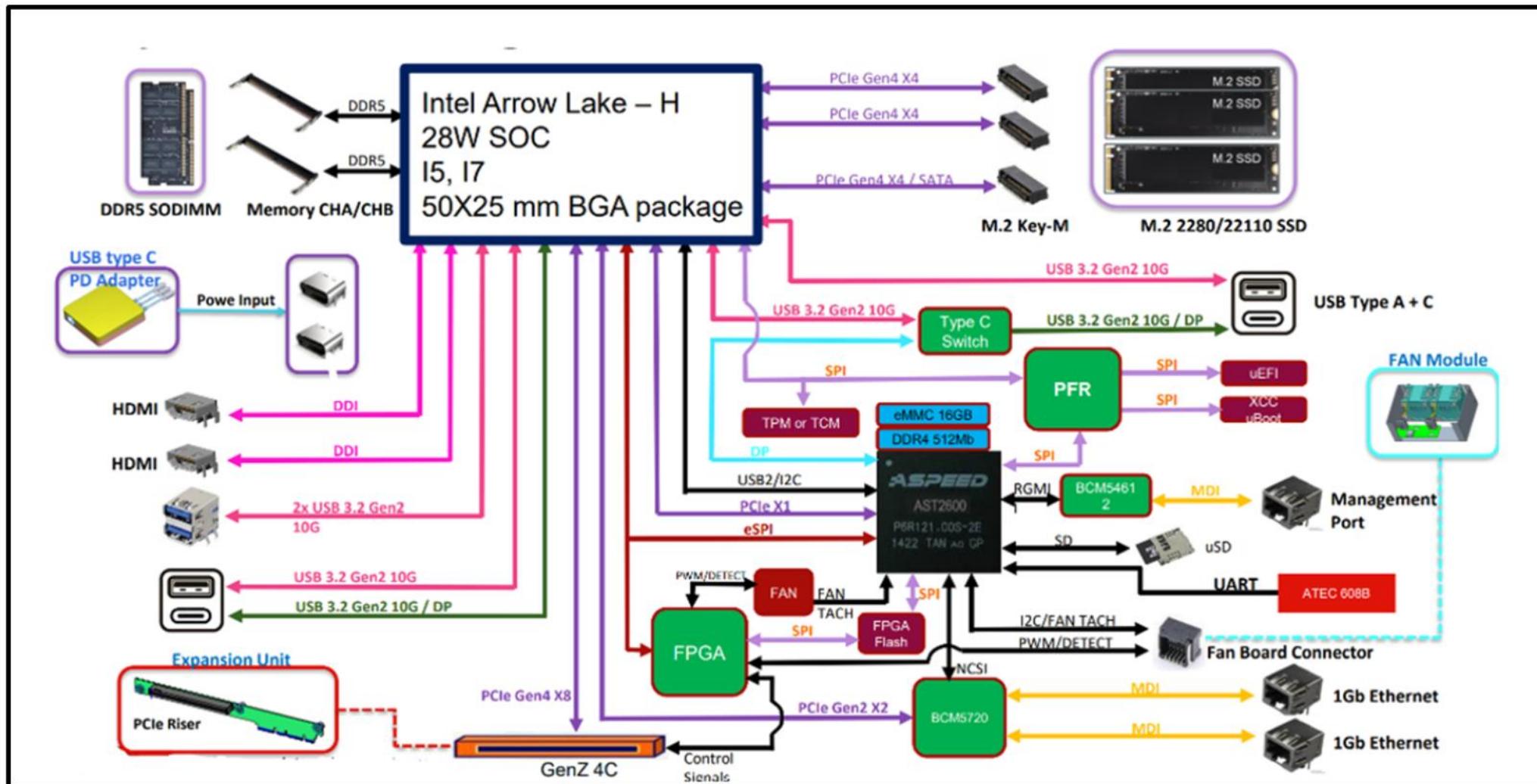


System configurations and diagrams

Block diagram, mounting options, parts installation

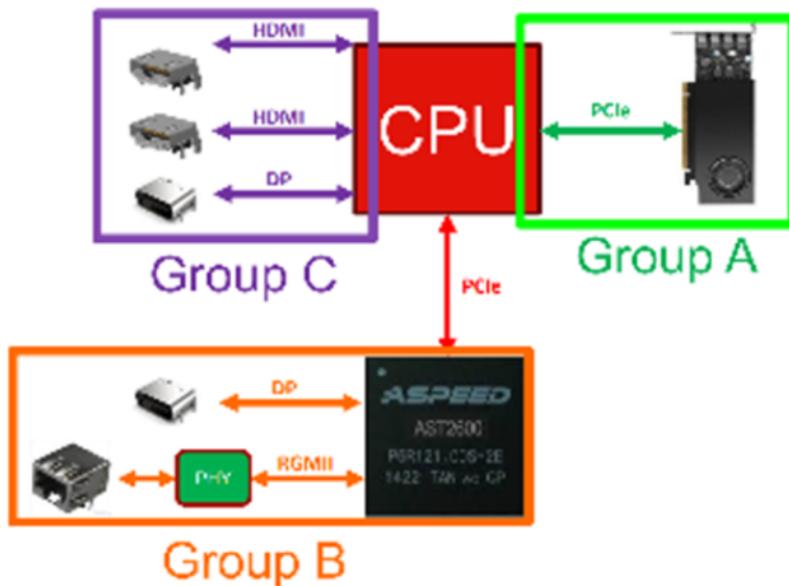
Lenovo

SE100 system board block diagram

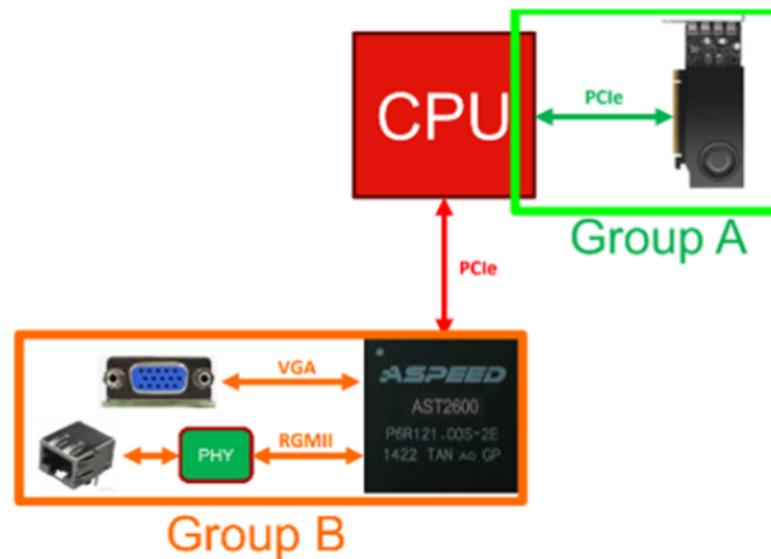


Display controller block diagram

SE100 display controller design



ISG common display controller design



Note: Group A (add-in card output), Group B (BMC output), and Group C (CPU output) need different drivers, so the OS will treat them as different sources.

Mounting options

The SE100 has the following mounting options:

- Single node mounting (desktop, VESA, DIN)
- Standard rack (1U 2N or 1U 3N)



Note: For more information about installing a node, refer to the [Configuration installation guide](#) on Lenovo Docs.

VESA mount

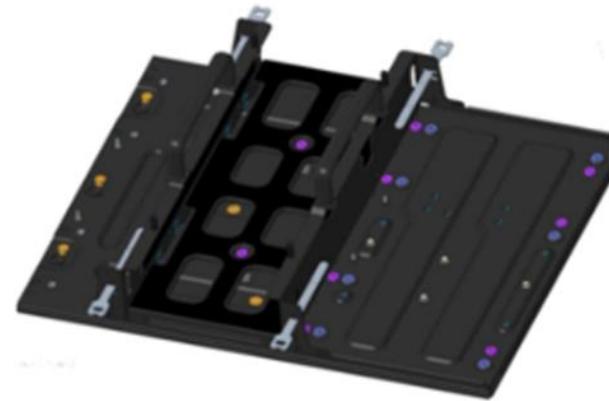
The SE100 supports a VESA mount with a 140 W VESA PD cage and a VESA bracket.



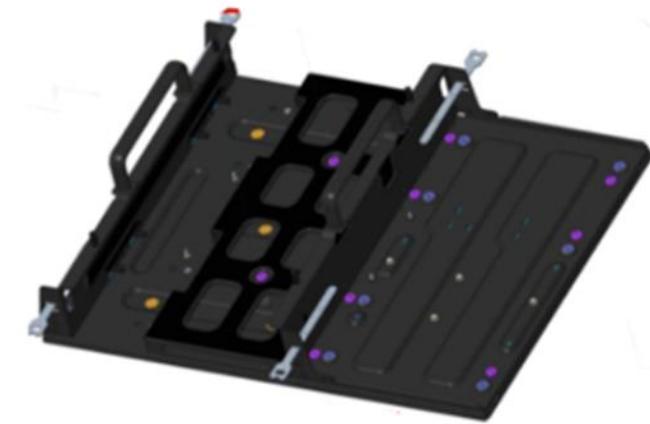
140 W PD cage



140 W PD



Node bracket

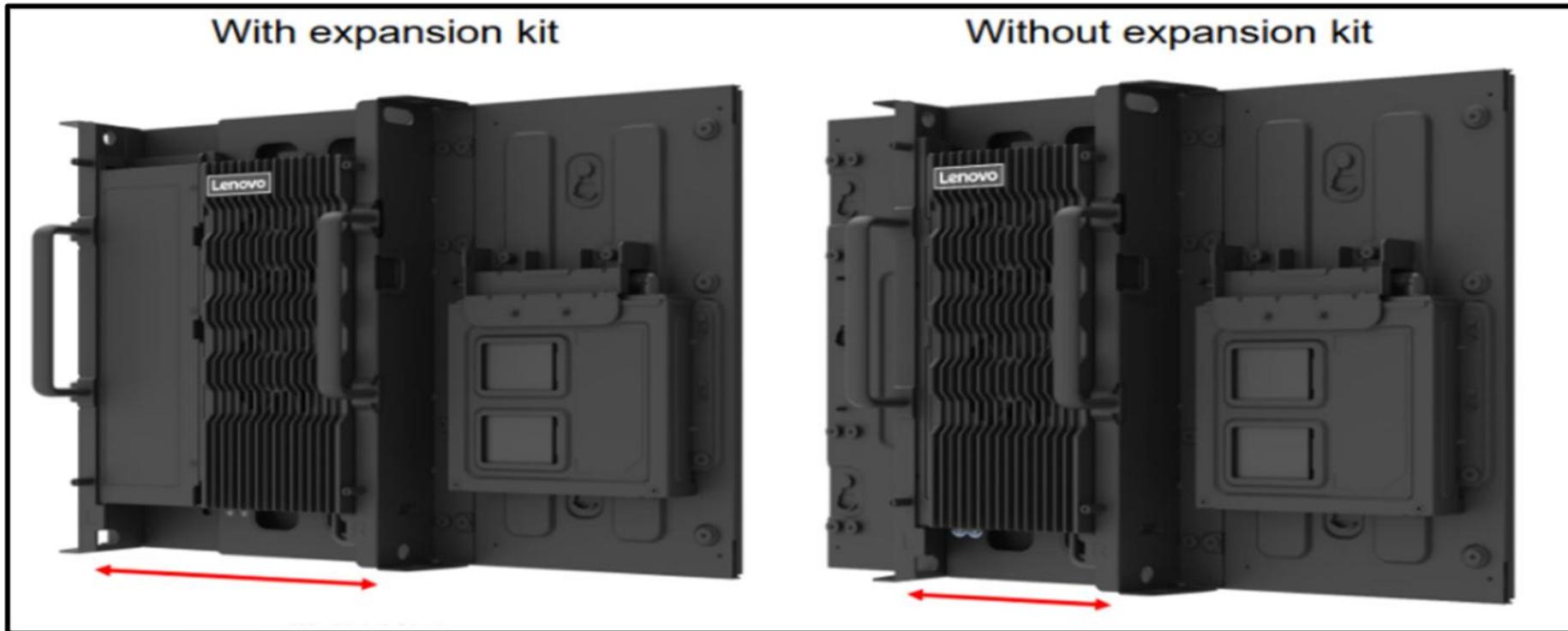


Node + expansion kit bracket

Description	kg	Width (mm)	Length (mm)	Height (mm)
140 W VESA PD cage	0.29	161.6	162	36.8
VESA bracket	5.26	439.4	345.7	111.6

Wall, ceiling, and DIN mount

The SE100 supports a wall, ceiling, and DIN rail mount that can be used both with or without an expansion kit.



Note: For more information, refer to *Wall, ceiling or DIN mount* section of the [SE100 product guide](#) on Lenovo Press.

Rack mount

The SE100 supports a standard rack mount.

- 1U2N – two nodes with expansion kits
- 1U3N – three nodes without expansion kits

Click the buttons for more information.

1U2N



1U3N





Dimensions

- Height: 43 mm
- Width: 434.4 mm
- Depth: 734.3 mm



Weight

With two nodes, two expansion kits, and two power adapters: 13.9 kg



Front view





Dimensions

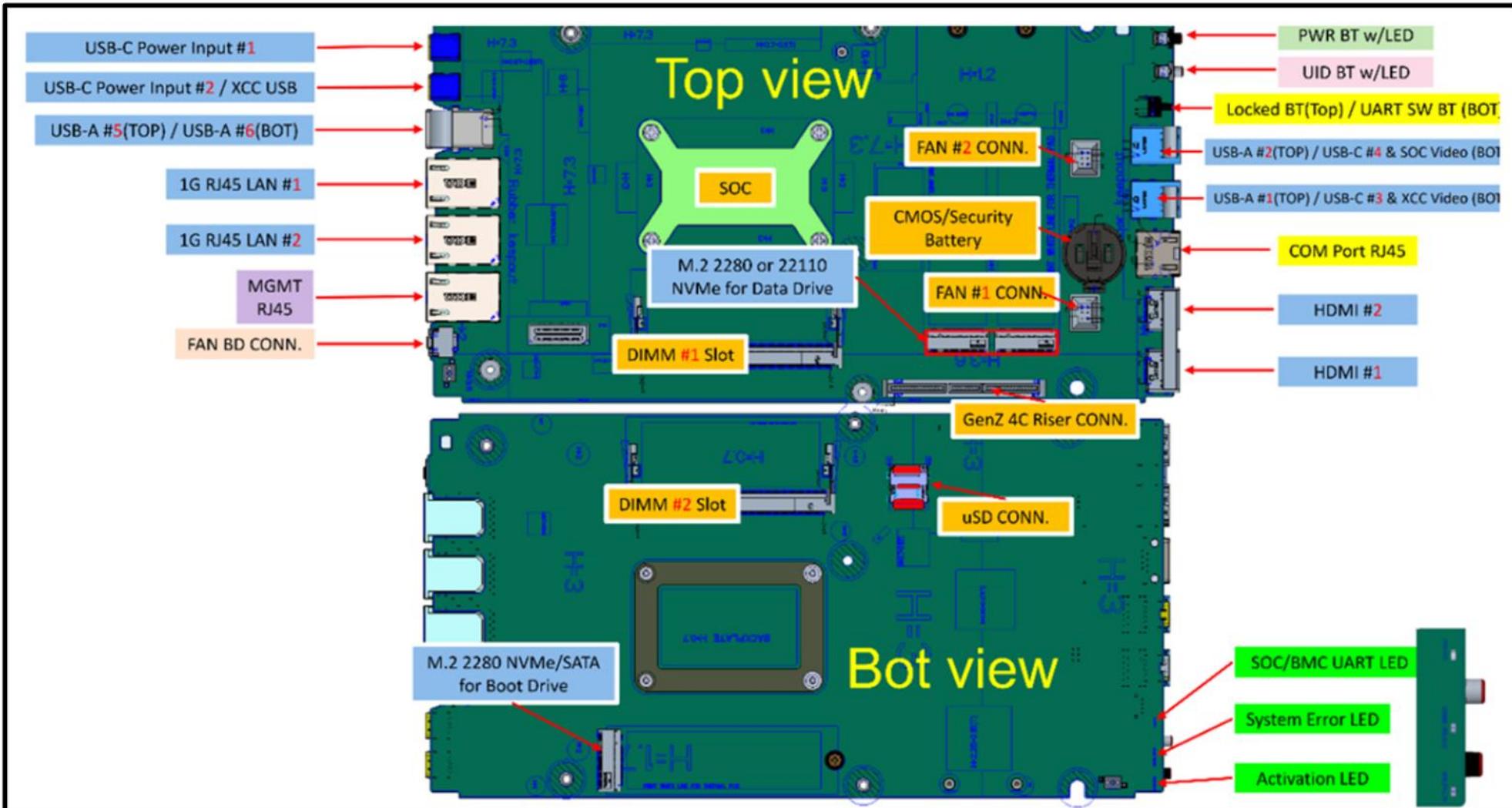
- Height: 43 mm
- Width: 434.4 mm
- Depth: 734.3 mm



Weight

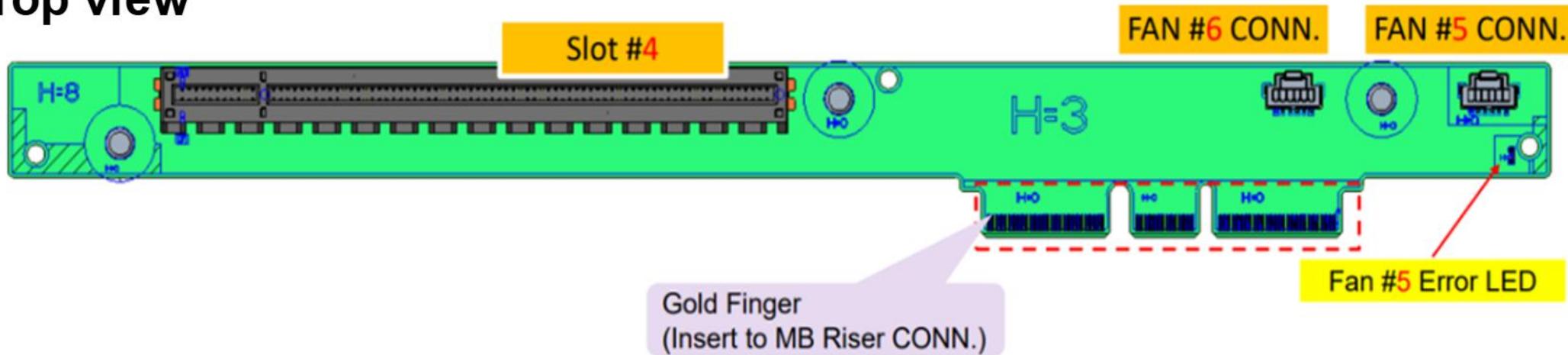
With three nodes and two power adapters: 15 kg

Planar placement

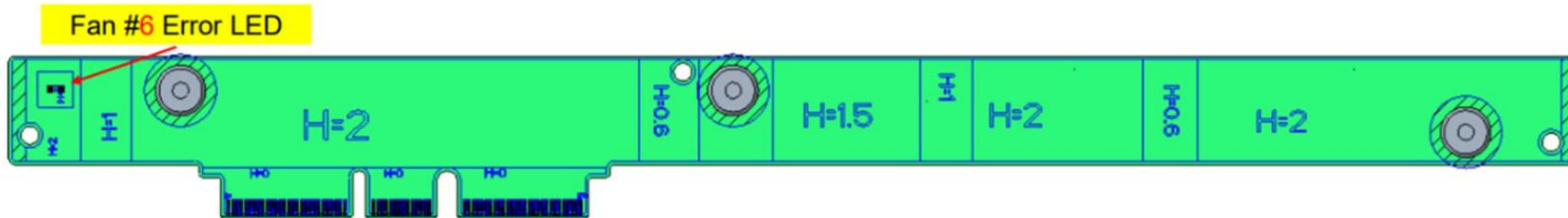


Riser card placement

Top view



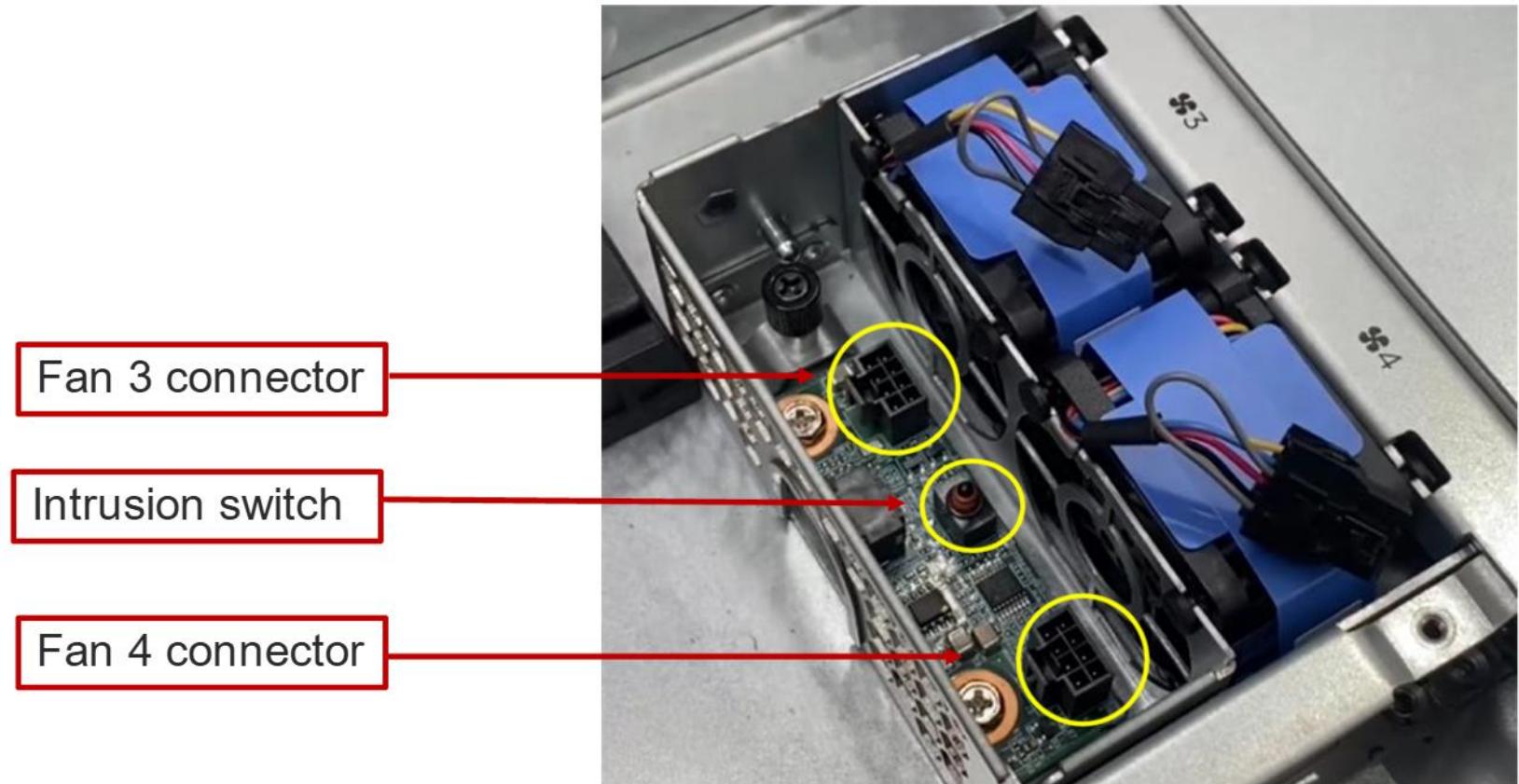
Bottom view



Fan control board

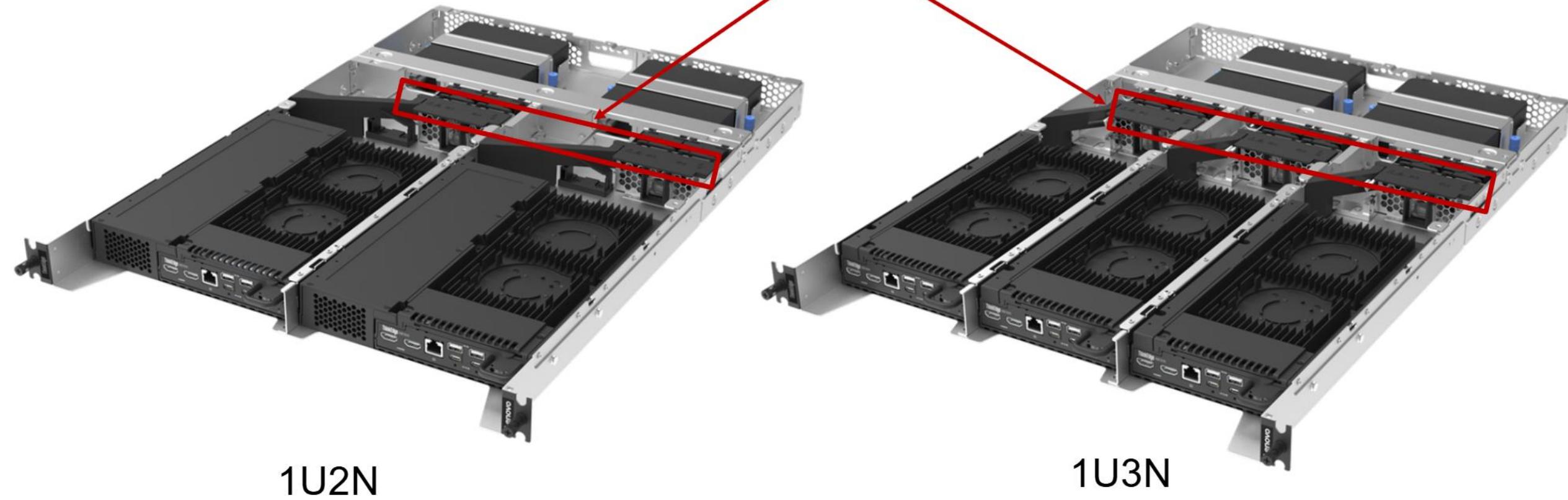
The fan control board intrusion switch detects the middle top cover.

- When the cover is closed, fans 3 and 4 will run normally.
- When the cover is open, fans 3 and 4 will run faster to ensure proper system cooling.



Enclosure fan board

Fan board location



1U2N

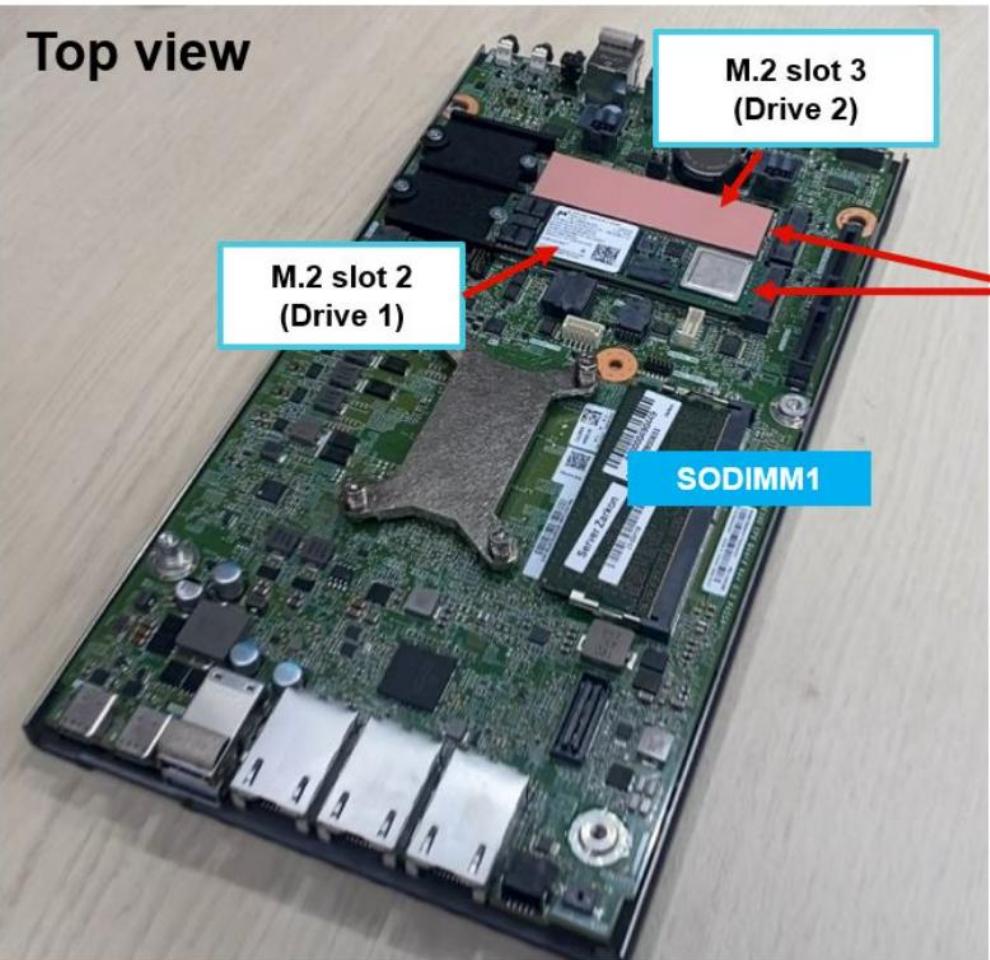
1U3N

System fan matrix

Location	 Fan 1	 Fan 2	 Fan 3	Fan 4	Fan 5	Fan 6
Numbering	Fan 1	Fan 2	Fan 3	Fan 4	Fan 5	Fan 6
Node with no expansion kit	✓	✓	X	X	X	X
Node with NIC expansion kit	✓	✓	X	X	✓	✓
1U2N / NIC kit	X	X	✓	✓	✓	✓
1U3N	X	X	✓	✓	X	X

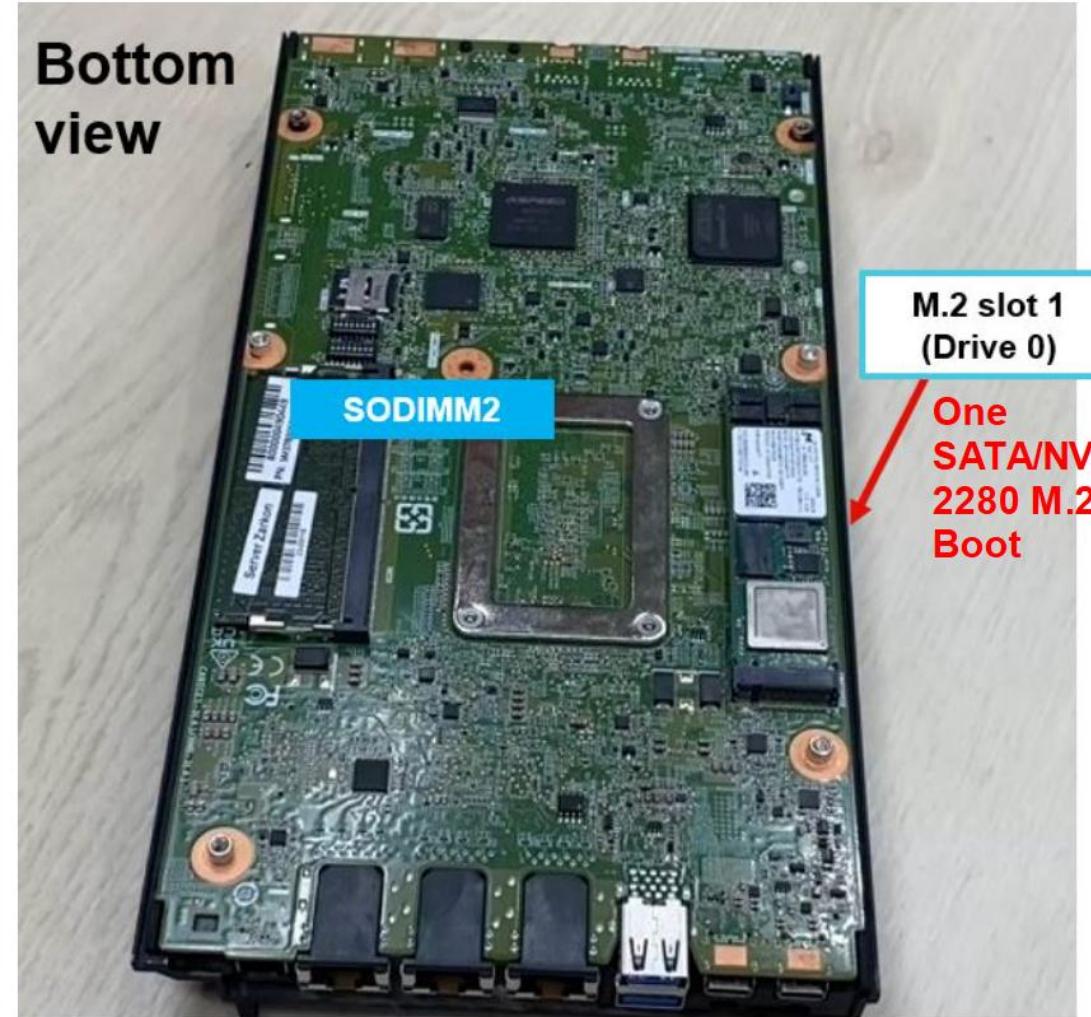
Drive ordering

Top view



Two 2280 or
22110 M.2
for data,
NVMe only

Bottom
view

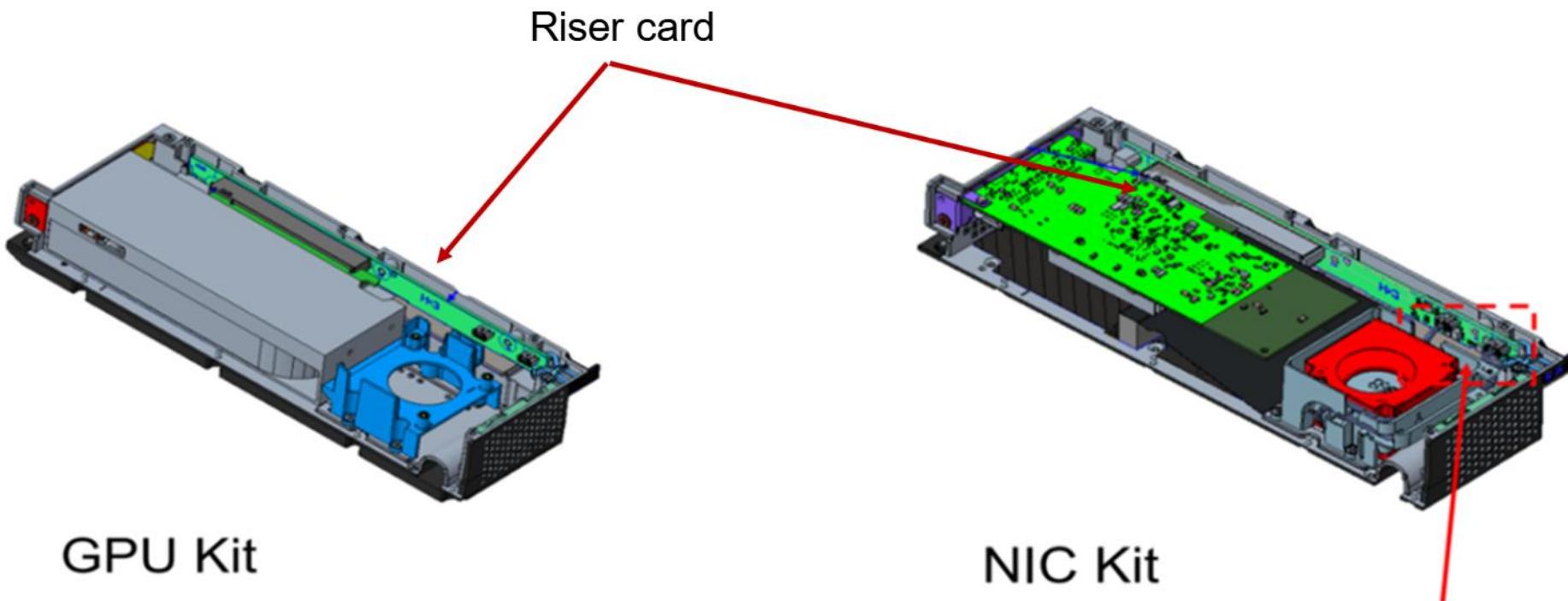


M.2 slot 1
(Drive 0)

One
SATA/NVMe
2280 M.2 for
Boot

Note: You cannot mix 2280 and 22110 M.2 data drives.

Expansion riser kits



GPU Kit

No need for extra fan support

NIC Kit

Requires two blower fans (fans 5 and 6)

Parts installation and removal

For more information, refer to the installation and removal videos on the course landing page.

Also check the *Hardware replacement procedure* section of the [SE100 user guide](#) on Lenovo Docs for detailed installation steps, including:

- Installation guidelines
- Memory module installation rules and order
- Thermal pad replacement
- Powering the server on and off
- Configuration guide
- Rubber feet replacement
- Power adapter replacement
- Node component replacement
- PCIe expansion kit replacement