

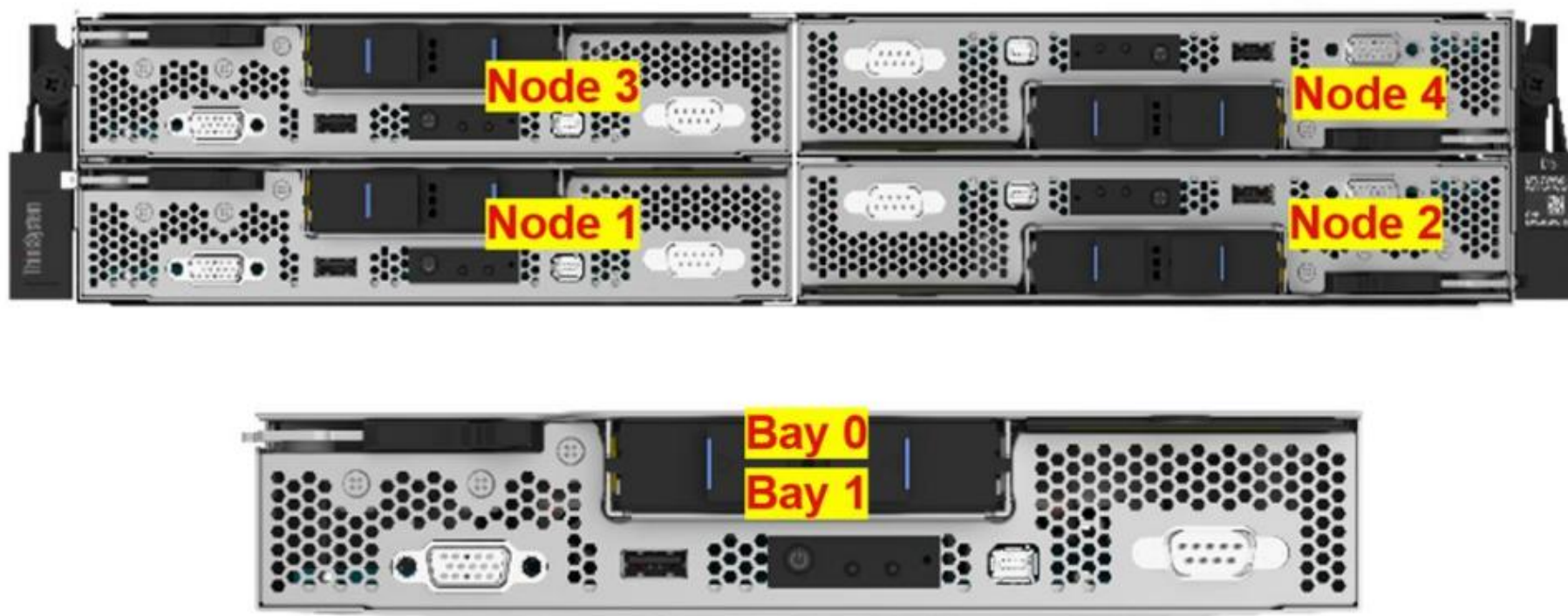
SD530 V3 configurations and diagrams

System block diagram and hardware configurations

Lenovo

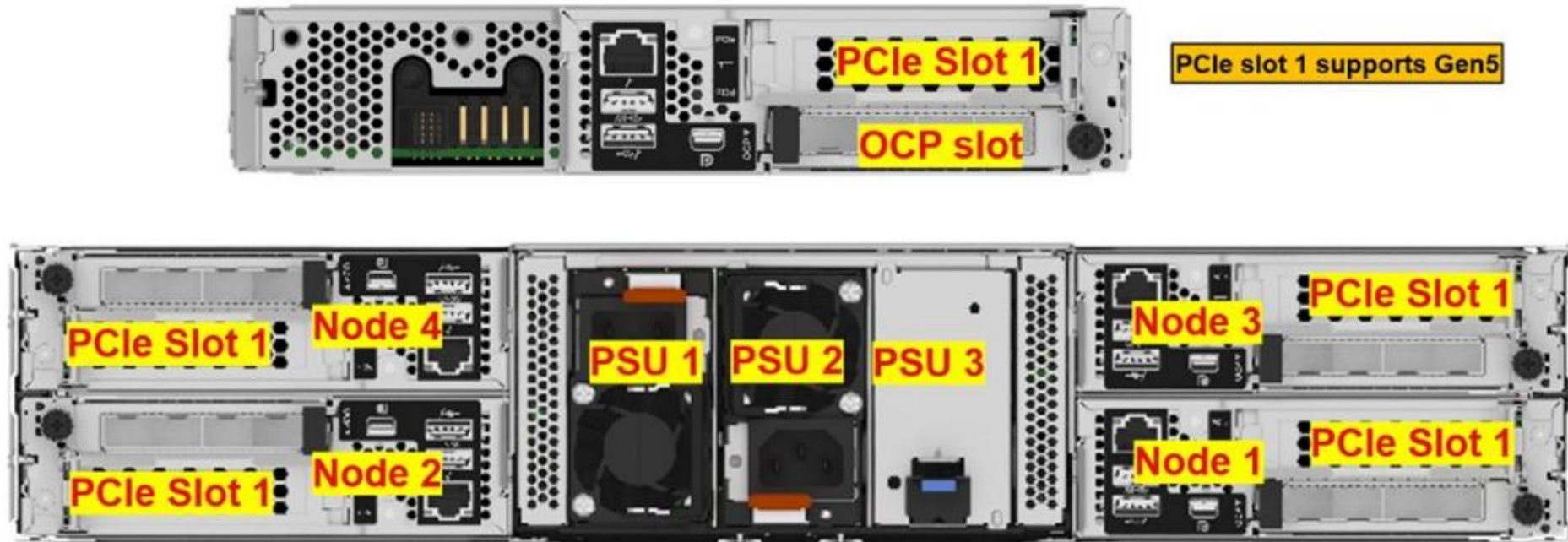
System device numbering - front

The D3 chassis can accommodate four SD530 V3 nodes. Node 1 and node 3 have a standard installation on the left, and node 2 and node 4 are installed upside down on the right.



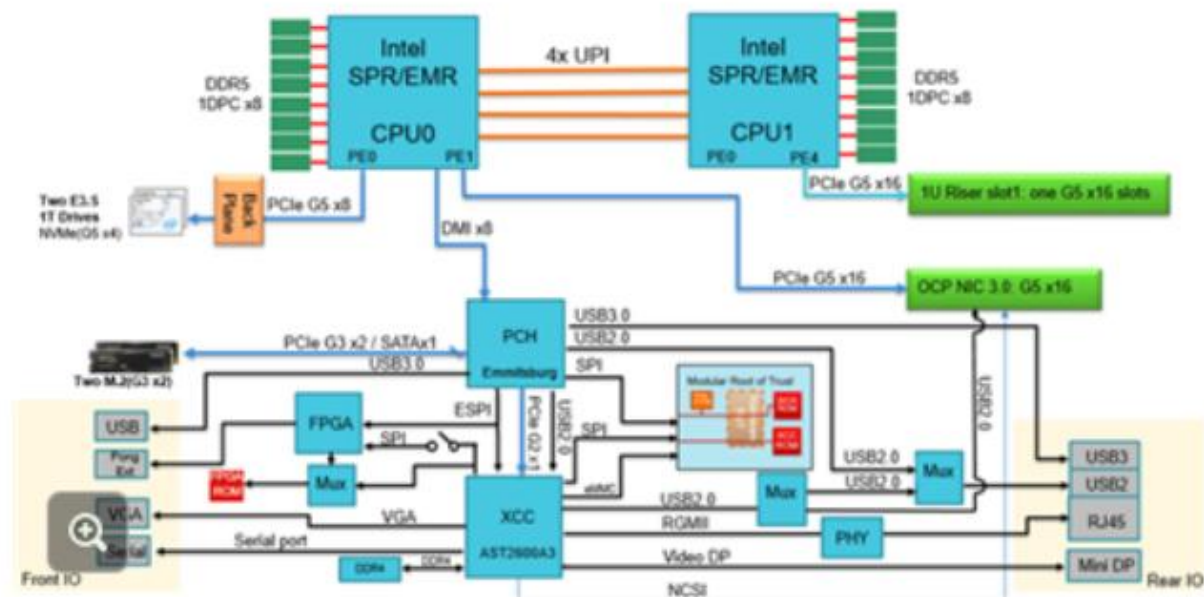
System device numbering - rear

All PCIe slots are x16 bandwidth, and the OCP slots can support two-port or four-port OCP modules for network connectivity.

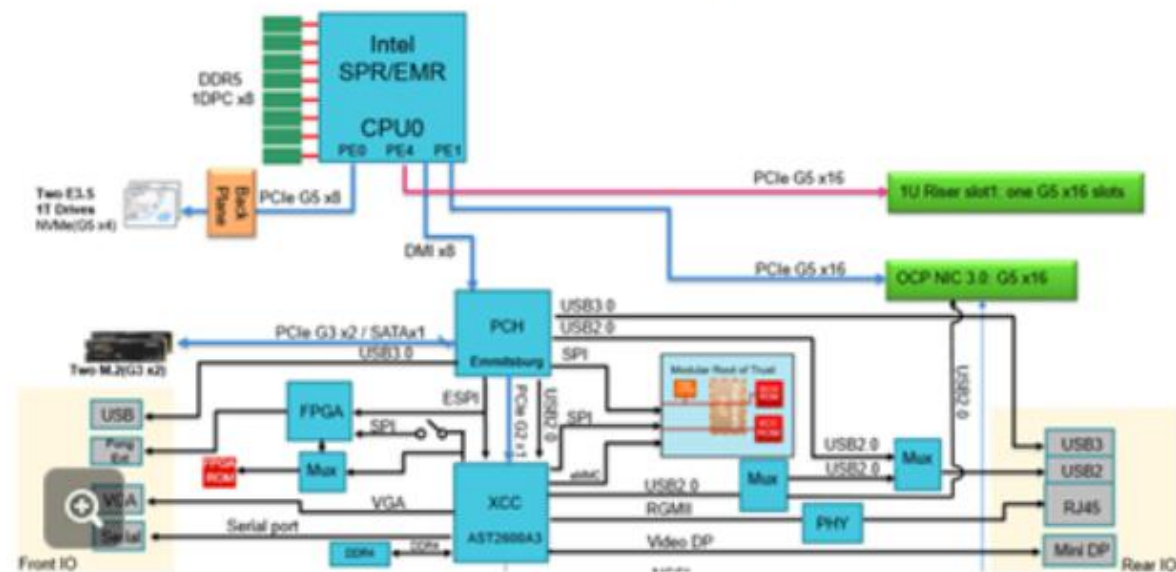


System block diagrams

SD530 V3 Block Diagram 1U2S



SD530 V3 Block Diagram 1U1S



Support configurations

The SD530 V3 supports two system configurations.

CPU support condition	E3.S drives / Quantity	PCIe card / Quantity	OCP card / Quantity
SD530 V3 1U2S	2	1	1
SD530 V3 1U1S	2	1	1

Storage backplane type	Specification
Two 1 EDSFF 1T NVMe	NVMe (Gen4 / Gen5)

Thermal limitations

Node	CPU sockets	Slot capability	Storage configuration	CPU power & Ambient temp support	DIMM capability	CPU heat sink solutions	Fan solution
SD530 V3	2S	- Single one- or two-port PCIe - Single four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	205 W @ 25°C	Sixteen 64 GB	- Front: 1U STD - Rear : 1U T-shape	Four 4056 fans per node
				150 W @ 30°C			
		- One GPU L4/ Flex 140 w/ air duct - One four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	205 W @ 25°C	Sixteen 64 GB	- Front: 1U STD - Rear : 1U T-shape	Four 4056 fans per node
				150 W @ 30°C			
	1S	- Single one- or two-port PCIe - Single four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	350 W / 330 W @ 30°C	Eight 96 GB	Front: 1U T-shape	Four 4056 fans per node
				300 W @ 35°C			
				185 W @ 35°C	Eight 96 GB	Front: 1U STD	Four 4056 fans per node
		- Single one- or two-port PCIe - Single four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	350 W / 330 W @ 25°C	Eight 128 GB	Front: 1U T-shape	Four 4056 fans per node
				300 W @ 30°C			
				185 W @ 35°C	Eight 128 GB	Front: 1U STD	Four 4056 fans per node

Thermal limitations

Node	CPU sockets	Slot capability	Storage configuration	CPU power & Ambient temp support	DIMM capability	CPU heat sink solutions	Fan solution
SD530 V3	1S	OCP					
		- Single one- or two-port PCIe - Single four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	350 W / 330 W @ 30°C	Eight 96 GB	• Front: 1U T-shape	Four 4056 fans per node
				300 W @ 35°C			
				185 W @ 35°C	Eight 96 GB	• Front: 1U STD	Four 4056 fans per node
		- Single one- or two-port PCIe - Single four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	350 W / 330 W @ 25°C	Eight 128 GB	• Front: 1U T-shape	Four 4056 fans per node
				300 W @ 30°C			
				185 W @ 35°C	Eight 128 GB	• Front: 1U STD	Four 4056 fans per node
		- One GPU L4/ Flex 140 W/ air duct - One four-port OCP	- Two E3.S 1T - Two M.2 SATA/NVMe boot drives	350 W / 330 W @ 30°C	Eight 96 GB	• Front: 1U T-shape	Four 4056 fans per node
				300 W @ 35°C			
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