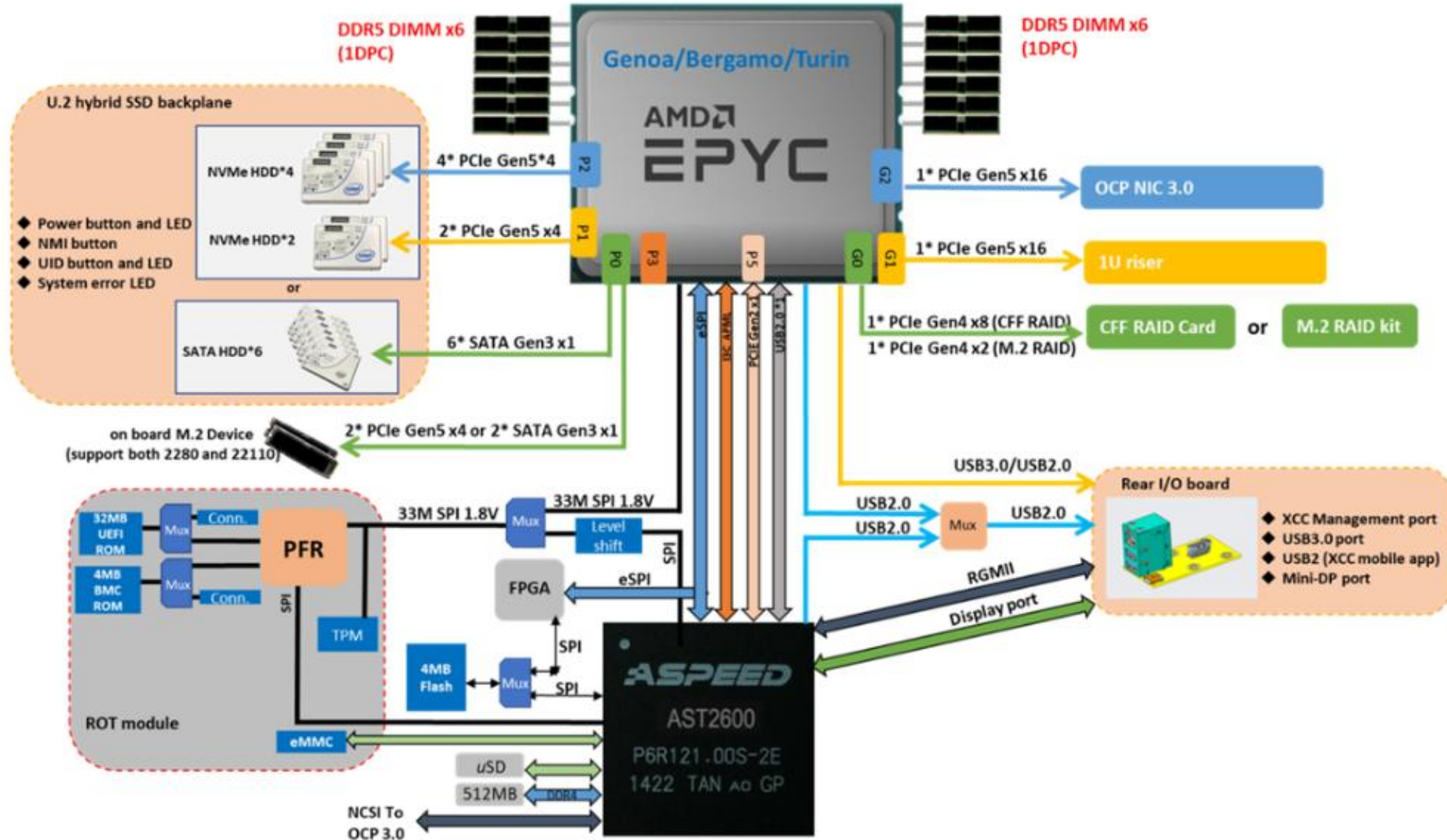


SD535 V3 system configurations

Block diagrams and hardware configurations

Lenovo

SD535 V3 block diagram

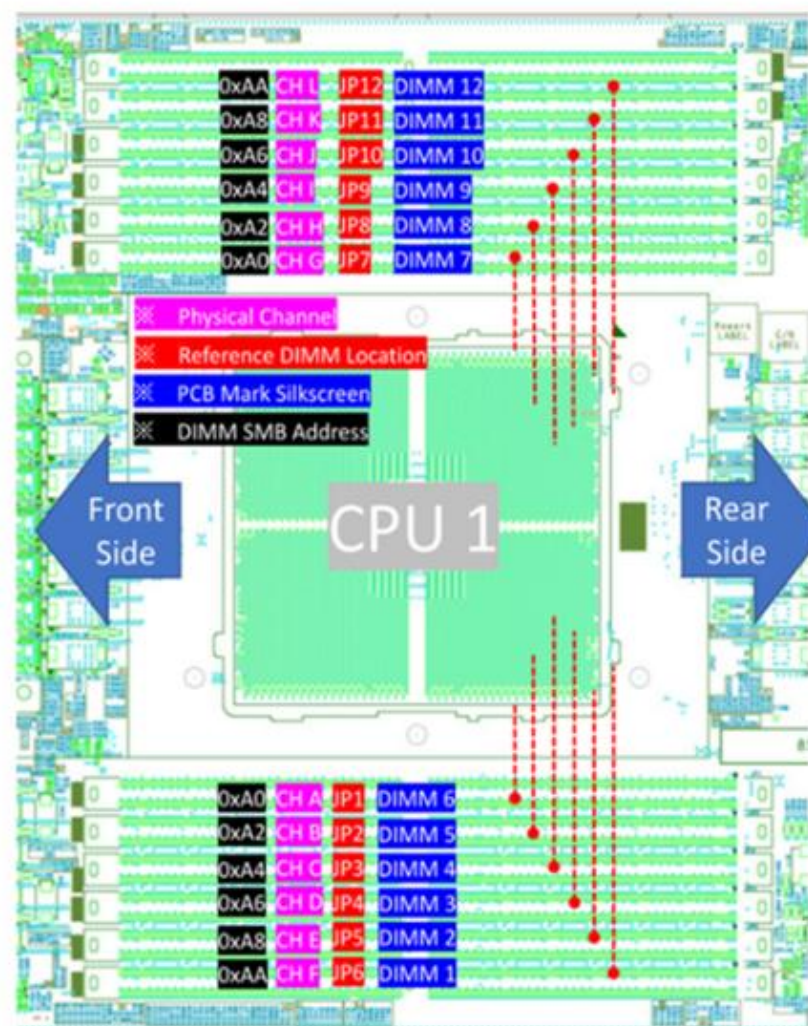


Minimum system configuration

The minimum configuration required for the node to start is as follows:

- One processor
- One memory module in DIMM slot 6
- One power supply in PSU slot 1
- One M.2 or 2.5-inch boot drive and a RAID adapter if one is configured (if an OS is needed for debugging)
- Four system fans

Memory mapping and configuration



Refer to the table below for the population sequence.

			CPU1												
			UMC8	UMC7	UMC11	UMC6	UMC10	UMC9		UMC3	UMC4	UMC0	UMC5	UMC1	UMC2
			CH-L	CH-K	CH-J	CH-I	CH-H	CH-G		CH-A	CH-B	CH-C	CH-D	CH-E	CH-F
DDR5	Mode	CPU#	DIMM0	DIMM0	DIMM0	DIMM0	DIMM0	DIMM0		DIMM0	DIMM0	DIMM0	DIMM0	DIMM0	DIMM0
Slot Number			Slot12	Slot11	Slot10	Slot9	Slot8	Slot7		Slot6	Slot5	Slot4	Slot3	Slot2	Slot1
1	Independent	1								DDR5					
2	Independent	1						DDR5		DDR5					
4	Independent	1				DDR5		DDR5		DDR5		DDR5			
6	Independent	1				DDR5	DDR5	DDR5		DDR5	DDR5	DDR5			
8	Independent	1		DDR5		DDR5	DDR5	DDR5		DDR5	DDR5	DDR5		DDR5	
10	Independent	1		DDR5	DDR5	DDR5	DDR5	DDR5		DDR5	DDR5	DDR5	DDR5	DDR5	
12	Independent	1	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5		DDR5	DDR5	DDR5	DDR5	DDR5	DDR5

For example, if one DIMM is to be installed, install it in slot 6. If two DIMMs are to be installed, install them in slots 6 and 7.

Memory installation guideline

Follow these rules when installing DIMMs:

- Mixing DIMMs from different vendors is supported
- Mixing x4 and x8 DIMMs is not allowed
- Mixing 3DS RDIMM and non-3DS RDIMM is not allowed
- Mixing 4-rank 3DS RDIMM and 8-rank 3DS RDIMM is not allowed
- Mixing 16 Gbit (16 GB, 32 GB, 64 GB) and 24 Gbit (24 GB, 48 GB, 96 GB) memory modules is not allowed
- Mixing single-rank and dual-rank DIMMs is allowed
- When installing DIMMs with different capacities, install the DIMM with the highest capacity first
- For best performance, install memory modules of identical capacity and rank across all 12 channels

Thermal support

Node	CPU Sockets	Slot Capability	Storage Configuration	CPU power & Ambient Temp. Support	DIMM Capability	CPU Heatsinks Solution	Fan Solution
SD535 V3	1S	1x 2ports PCIe 1x 4ports OCP	6x HDDs 2x M.2 boot drives	300W (9354P, 9534) @30C 240W (9124) @35C	12x 96G	1U EVAC HSK	4x 4056 – Per Node
			2x HDDs 2x M.2 boot drives	400W (9554P, 9654P) @25C			
			0x HDDs 2x M.2 boot drives	400W (9554P, 9654P) @30C 300W (9354P, 9534) @35C			
			0x HDDs 2x M.2 boot drives	400W (9554P, 9654P) @25C 300W (9354P, 9534) @30C	12x 128G		
		1x GPU w/ air duct 1x 2ports OCP	6x HDDs 2x M.2 boot drives	300W (9354P, 9534) @30C 240W (9124) @35C	12x 96G	1U EVAC HSK	4x 4056 – Per Node

Note: Only DAC cables are supported for connections to 100 Gbps CX6/CX7/OCP/PCIe or higher speed adapters.