



Lenovo ThinkSystem SR780a V3 (HGX H100)

8x H100 Hopper rack

OVERVIEW

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Peak Dense	Aggregate Memory	Aggregate Bandwidth	Aggregate Power

CONFIGURATION

Accelerator	H100 SXM5 80GB
Count	8
Memory per GPU	80 GB
Bandwidth per GPU	3.4 TB/s

POWER & EFFICIENCY

Aggregate Power	—
TDP per GPU	700 W
Efficiency	—
Aggregate Bandwidth	—

SYSTEM DETAILS

Vendor: Lenovo	Family: ThinkSystem	Architecture: Hopper
Form Factor: rack	Release Year: —	Process Node: 4nm

INTERCONNECT

One NVIDIA HGX H100 8-GPU liquid-cooled baseboard, with the NVLink switches water-cooled alongside the GPUs and CPUs

NOTES

The Hopper configuration of Lenovo's SR780a V3, ordered under base feature code C4E1 and built on a ThinkSystem NVIDIA HGX H100 80GB 700W eight-GPU liquid-cooled board. The machine's distinguishing feature is thermal: sixth generation Lenovo Neptune water cooling on four loops cools the CPUs, the GPUs and the NVLink switches, removing up to 75 percent of the server's heat in warm water and leaving fans for everything else. That is what lets an eight-accelerator system occupy 5U instead of the 8U its air-cooled equivalents need, in a chassis 447 by 219 by 942 mm weighing up to 92 kg. Hosting is two fifth-generation Intel Xeon Scalable processors at 56 cores and 350 W, and power is eight hot-swap supplies in N+N redundancy, all standard. Lenovo publishes no system power draw, no accelerator memory total and no system-level throughput; the linked HGX H100 entry carries NVIDIA's figures for the baseboard.