



Lenovo ThinkSystem SR780a V3 (HGX B200)

8x B200 Blackwell rack

OVERVIEW

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Peak Dense	Aggregate Memory	Aggregate Bandwidth	Aggregate Power

CONFIGURATION

Accelerator	B200 SXM 180GB
Count	8
Memory per GPU	180 GB
Bandwidth per GPU	7.7 TB/s

POWER & EFFICIENCY

Aggregate Power	—
TDP per GPU	1000 W
Efficiency	—
Aggregate Bandwidth	—

SYSTEM DETAILS

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

INTERCONNECT

One NVIDIA HGX B200 8-GPU liquid-cooled baseboard at 1000 W per accelerator, with the NVLink switches water-cooled alongside the GPUs and CPUs

NOTES

The Blackwell configuration of Lenovo's SR780a V3, ordered under base feature code C695 and built on a ThinkSystem NVIDIA HGX B200 180GB eight-GPU liquid-cooled board rated at 1000 W per accelerator, against 700 W for the Hopper board in the same chassis. That is the case for the design: sixth generation Lenovo Neptune water cooling on four loops takes CPUs, GPUs and NVLink switches, removing up to 75 percent of the heat in warm water, and eight kilowatt-class accelerators still fit in 5U where the air-cooled machines in this catalogue need 8U or 10U. The chassis is 447 by 219 by 942 mm at up to 92 kg, hosted by two fifth-generation Intel Xeon Scalable processors at 56 cores and 350 W, with eight hot-swap supplies in N+N redundancy. Lenovo publishes no system power draw, no accelerator memory total and no system-level throughput; the linked HGX B200 entry carries NVIDIA's figures.