



Lenovo ThinkSystem SR680a V4

8x B300 Blackwell Ultra rack

OVERVIEW

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Peak Dense	Aggregate Memory	Aggregate Bandwidth	Aggregate Power

CONFIGURATION

Accelerator	B300 SXM 288GB
Count	8
Memory per GPU	288 GB
Bandwidth per GPU	8.0 TB/s

POWER & EFFICIENCY

Aggregate Power	—
TDP per GPU	1400 W
Efficiency	—
Aggregate Bandwidth	—

SYSTEM DETAILS

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

INTERCONNECT

One NVIDIA HGX B300 SXM baseboard, which Lenovo pairs with fast interconnects between GPUs, CPUs and networking

NOTES

Lenovo's Blackwell Ultra machine, an 8U server developed in-house around eight NVIDIA HGX B300 SXM GPUs and two Intel Xeon 6700P processors reaching 86 cores at up to 350 W. Notably it is designed for air cooling, where most B300 machines in this catalogue are liquid cooled or need direct-to-chip plumbing, and it carries that with 21 hot-swap fans, six at the front for CPUs and memory and fifteen at the rear for drives and the GPU subsystem. Power is six or eight hot-swap supplies, either 3,200 W AC or 3,800 W high-voltage AC or DC, in N+1 or N+N redundancy. The chassis is 447 by 351 by 924 mm at up to 124.7 kg, the heaviest of Lenovo's 8U accelerator servers. Lenovo publishes no system power draw, no accelerator memory total and no system throughput figure; its per-GPU B300 table matches NVIDIA's own specification for the baseboard, which is linked here.