

HPE ProLiant Compute XD685 (HGX B200)

8x B200

Blackwell

rack

2025

OVERVIEW

36.0 FP8 PFLOPS Dense	1.4 TB Aggregate Memory	64.0 TB/s Aggregate Bandwidth	— Aggregate Power
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PERFORMANCE METRICS

Precision	Peak (PFLOPS)	Per GPU (TFLOPS)	TFLOPS/W
FP64	0.3	37.0	—
FP32	0.6	75.0	—
TF32	8.8	1100.0	—
FP16	18.0	2250.0	—
BF16	18.0	2250.0	—
FP8	36.0	4500.0	—
FP4	72.0	9000.0	—
INT8	36.0	4500.0	—

All figures are dense. Vendors commonly headline the sparse number, which is twice the dense one.

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
FP8 Efficiency	—
Aggregate Bandwidth	64.0 TB/s

SYSTEM DETAILS

Vendor: HPE	Family: ProLiant Compute XD	Architecture: Blackwell
Form Factor: rack	Release Year: 2025	Process Node: 4nm

INTERCONNECT

NVLink 5.0 / NVSwitch 4.0 across the HGX B200 baseboard; 4x FHHL PCIe Gen5 x16 slots for fabric, NIC or DPU

NOTES

The eight-way XD685 in its NVIDIA HGX B200 configuration, liquid cooled only, in the 5U DLC chassis S4R96A. HPE names B200 support twice in the QuickSpecs, in the supported-accelerator list

and in the rule that the H200 and B200 liquid-cooled accelerators must be paired with this chassis, so the configuration is not in doubt. The accelerator kit part number is not recorded: the accelerator table lists two entries both described as HGX B300 with different part numbers, one of which is likely the B200 mislabelled, and guessing which would put an unverified number on a row buyers may quote. Two fifth-generation AMD EPYC processors, 24 DIMM slots and up to 6 TB of DDR5-6400. HPE publishes no system power draw, only twelve 3,000 W supplies, so nothing is summed; compute is NVIDIA's for the baseboard.