

ASUS ESC NB8-E11

8x B200

Blackwell

rack

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: ASUS	Family: ESC	Architecture: Blackwell
Form Factor: rack	Release Year: —	Process Node: 4nm

INTERCONNECT

NVIDIA NVLink with NVSwitch, 1,800 GB/s GPU-to-GPU; one-GPU-to-one-NIC topology with up to 8 NICs

NOTES

A 10U eight-GPU server built on the NVIDIA Blackwell HGX B200 baseboard, with dual 5th generation Intel Xeon Scalable processors at 350 W and NVLink giving 1,800 GB/s directly between

GPUs, twice the bandwidth of the Hopper-generation ESC N8-E11. It uses a dedicated one-GPU-to-one-NIC topology supporting up to eight NICs, and offers up to 11 PCIe slots, 32 DIMM slots, 10 NVMe bays and dual 10Gb LAN, with 5+1 80 PLUS Titanium supplies. Unlike many B200 platforms it is air-cooled, using dedicated CPU and GPU airflow tunnels, which is what accounts for the 10U height. ASUS publishes no FLOPS figure of its own, so the compute shown is NVIDIA's for the HGX B200 baseboard, including the sparse figures NVIDIA publishes for Blackwell. ASUS's detailed specification tab does not render server-side, so chassis dimensions, weight and power supply wattages could not be read and are deliberately absent.