



NVIDIA A100 SXM4 80GB vs NVIDIA B200 SXM 180GB

Side by side datacenter GPU specifications from the Flopper.io database.

OVERVIEW

	NVIDIA A100 SXM4 80GB	NVIDIA B200 SXM 180GB
FP32 TFLOPS	19.5	75.0
VRAM	80 GB	180 GB
Memory Bandwidth	2.0 TB/s	7.7 TB/s
TDP	400 W	1.0 kW

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 SXM4 80GB peak TFLOPS (dense)	NVIDIA B200 SXM 180GB peak TFLOPS (dense)
FP64	9.7	37.0
FP32	19.5	75.0
TF32	156.0	1125.0
BF16	312.0	2250.0
FP16	312.0	2250.0
FP8	—	4500.0
FP6	—	4500.0
FP4	—	9000.0
INT8	624.0	4500.0
INT4	1248.0	—

SPECIFICATIONS

	NVIDIA A100 SXM4 80GB	NVIDIA B200 SXM 180GB
Architecture	Ampere	Blackwell
Process Node	7nm	4nm
Launch Year	2020	2024
Form Factor	SXM	SXM
Memory Type	—	—
Interface Width	—	—

	NVIDIA A100 SXM4 80GB	NVIDIA B200 SXM 180GB
Interconnect	—	—
TDP	400 W	1.0 kW
FP32 Efficiency	0.05 TFLOPS/W	0.07 TFLOPS/W