



NVIDIA A100 SXM4 80GB vs NVIDIA A800 SXM4

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

OVERVIEW

	NVIDIA A100 SXM4 80GB	NVIDIA A800 SXM4
FP32 TFLOPS	19.5	19.5
Memory	80 GB	80 GB
Memory Bandwidth	2.0 TB/s	2.0 TB/s
TDP	400 W	400 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 SXM4 80GB peak TFLOPS (dense)	NVIDIA A800 SXM4 peak TFLOPS (dense)
FP64	9.7	9.7
FP32	19.5	19.5
TF32	156.0	156.0
BF16	312.0	312.0
FP16	312.0	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	624.0	624.0
INT4	1248.0	1248.0

SPECIFICATIONS

	NVIDIA A100 SXM4 80GB	NVIDIA A800 SXM4
Architecture	Ampere	Ampere
Process Node	7nm	7nm
Launch Year	2020	2022
Form Factor	SXM	SXM
Memory Type	—	HBM2e
Interface Width	—	—

	NVIDIA A100 SXM4 80GB	NVIDIA A800 SXM4
Interconnect	—	NVLink
TDP	400 W	400 W
FP32 Efficiency	0.05 TFLOPS/W	0.05 TFLOPS/W