



NVIDIA A100 PCIe 80GB vs NVIDIA A100 SXM4 80GB

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

OVERVIEW

	NVIDIA A100 PCIe 80GB	NVIDIA A100 SXM4 80GB
FP32 TFLOPS	19.5	19.5
Memory	80 GB	80 GB
Memory Bandwidth	1.9 TB/s	2.0 TB/s
TDP	300 W	400 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 PCIe 80GB peak TFLOPS (dense)	NVIDIA A100 SXM4 80GB 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 PCIe 80GB	NVIDIA A100 SXM4 80GB
Architecture	Ampere	Ampere
Process Node	—	7nm
Launch Year	2021	2020
Form Factor	PCIe	SXM
Memory Type	HBM2e	—
Interface Width	5120-bit	—

	NVIDIA A100 PCIe 80GB	NVIDIA A100 SXM4 80GB
Interconnect	—	—
TDP	300 W	400 W
FP32 Efficiency	0.07 TFLOPS/W	0.05 TFLOPS/W