



NVIDIA A2 16GB vs NVIDIA A800 PCIe 80GB

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

OVERVIEW

	NVIDIA A2 16GB	NVIDIA A800 PCIe 80GB
FP32 TFLOPS	4.5	19.5
Memory	16 GB	80 GB
Memory Bandwidth	200 GB/s	1.9 TB/s
TDP	60 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A2 16GB peak TFLOPS (dense)	NVIDIA A800 PCIe 80GB peak TFLOPS (dense)
FP64	—	9.7
FP32	4.5	19.5
TF32	9.0	156.0
BF16	18.0	312.0
FP16	18.0	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	36.0	624.0
INT4	72.0	1248.0

SPECIFICATIONS

	NVIDIA A2 16GB	NVIDIA A800 PCIe 80GB
Architecture	Ampere	Ampere
Process Node	—	7nm
Launch Year	2021	2022
Form Factor	PCIe	PCIe
Memory Type	GDDR6	HBM2e
Interface Width	128-bit	—

	NVIDIA A2 16GB	NVIDIA A800 PCIe 80GB
Interconnect	—	—
TDP	60 W	300 W
FP32 Efficiency	0.07 TFLOPS/W	0.07 TFLOPS/W