



NVIDIA RTX A4000 16GB vs NVIDIA A800 PCIe 80GB

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

OVERVIEW

	NVIDIA RTX A4000 16GB	NVIDIA A800 PCIe 80GB
FP32 TFLOPS	19.2	19.5
Memory	16 GB	80 GB
Memory Bandwidth	448 GB/s	1.9 TB/s
TDP	140 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A4000 16GB peak TFLOPS (dense)	NVIDIA A800 PCIe 80GB peak TFLOPS (dense)
FP64	0.3	9.7
FP32	19.2	19.5
TF32	19.2	156.0
BF16	19.2	312.0
FP16	19.2	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	38.3	624.0
INT4	—	1248.0

SPECIFICATIONS

	NVIDIA RTX A4000 16GB	NVIDIA A800 PCIe 80GB
Architecture	Ampere	Ampere
Process Node	8nm	7nm
Launch Year	2021	2022
Form Factor	PCIe	PCIe
Memory Type	GDDR6	HBM2e
Interface Width	256-bit	—

	NVIDIA RTX A4000 16GB	NVIDIA A800 PCIe 80GB
Interconnect	—	—
TDP	140 W	300 W
FP32 Efficiency	0.14 TFLOPS/W	0.07 TFLOPS/W