



NVIDIA RTX A4000 16GB vs NVIDIA A100 SXM4 40GB

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

OVERVIEW

	NVIDIA RTX A4000 16GB	NVIDIA A100 SXM4 40GB
FP32 TFLOPS	19.2	19.5
Memory	16 GB	40 GB
Memory Bandwidth	448 GB/s	1.6 TB/s
TDP	140 W	400 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A4000 16GB peak TFLOPS (dense)	NVIDIA A100 SXM4 40GB 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 A100 SXM4 40GB
Architecture	Ampere	Ampere
Process Node	8nm	7nm
Launch Year	2021	2020
Form Factor	PCIe	SXM
Memory Type	GDDR6	HBM2e
Interface Width	256-bit	4096-bit

	NVIDIA RTX A4000 16GB	NVIDIA A100 SXM4 40GB
Interconnect	—	—
TDP	140 W	400 W
FP32 Efficiency	0.14 TFLOPS/W	0.05 TFLOPS/W