



NVIDIA RTX A4500 20GB vs NVIDIA A100 SXM4 40GB

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

OVERVIEW

	NVIDIA RTX A4500 20GB	NVIDIA A100 SXM4 40GB
FP32 TFLOPS	23.6	19.5
Memory	20 GB	40 GB
Memory Bandwidth	640 GB/s	1.6 TB/s
TDP	200 W	400 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A4500 20GB peak TFLOPS (dense)	NVIDIA A100 SXM4 40GB peak TFLOPS (dense)
FP64	0.4	9.7
FP32	23.6	19.5
TF32	23.6	156.0
BF16	23.6	312.0
FP16	23.6	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	47.3	624.0
INT4	—	1248.0

SPECIFICATIONS

	NVIDIA RTX A4500 20GB	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	320-bit	4096-bit

	NVIDIA RTX A4500 20GB	NVIDIA A100 SXM4 40GB
Interconnect	—	—
TDP	200 W	400 W
FP32 Efficiency	0.12 TFLOPS/W	0.05 TFLOPS/W