NVIDIA A100 SXM4 40GB vs NVIDIA RTX A5500 24GB

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

OVERVIEW

	NVIDIA A100 SXM4 40GB	NVIDIA RTX A5500 24GB
FP32 TFLOPS	19.5	34.1
Memory	40 GB	24 GB
Memory Bandwidth	1.6 TB/s	768 GB/s
TDP	400 W	230 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 SXM4 40GB peak TFLOPS (dense)	NVIDIA RTX A5500 24GB peak TFLOPS (dense)
FP64	9.7	0.5
FP32	19.5	34.1
TF32	156.0	—
BF16	312.0	—
FP16	312.0	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	624.0	—
INT4	1248.0	—

SPECIFICATIONS

	NVIDIA A100 SXM4 40GB	NVIDIA RTX A5500 24GB
Architecture	Ampere	Ampere
Process Node	7nm	8nm
Launch Year	2020	2022
Form Factor	SXM	PCIe
Memory Type	HBM2e	GDDR6
Interface Width	4096-bit	384-bit

	NVIDIA A100 SXM4 40GB	NVIDIA RTX A5500 24GB
Interconnect	—	NVLink
TDP	400 W	230 W
FP32 Efficiency	0.05 TFLOPS/W	0.15 TFLOPS/W