



NVIDIA GeForce RTX 4090 24GB vs NVIDIA RTX A5000 24GB

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

OVERVIEW

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX A5000 24GB
FP32 TFLOPS	82.6	27.8
VRAM	24 GB	24 GB
Memory Bandwidth	1.0 TB/s	768 GB/s
TDP	450 W	230 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)	NVIDIA RTX A5000 24GB peak TFLOPS (dense)
INT8	330.3	55.6
FP8	330.3	—
FP16	165.2	27.8
BF16	165.2	27.8
TF32	82.6	27.8
FP32	82.6	27.8
FP64	1.3	0.4

SPECIFICATIONS

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX A5000 24GB
Architecture	Ada Lovelace	Ampere
Process Node	4nm	8nm
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	—	—
Interface Width	—	—
Interconnect	—	—

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX A5000 24GB
TDP	450 W	230 W
FP32 Efficiency	0.18 TFL0PS/W	0.12 TFL0PS/W