



NVIDIA GeForce RTX 4090 24GB vs NVIDIA RTX 5000 Ada 32GB

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

OVERVIEW

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX 5000 Ada 32GB
FP32 TFLOPS	82.6	65.3
VRAM	24 GB	32 GB
Memory Bandwidth	1.0 TB/s	576 GB/s
TDP	450 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)	NVIDIA RTX 5000 Ada 32GB peak TFLOPS (dense)
FP64	1.3	—
FP32	82.6	65.3
TF32	82.6	—
BF16	165.2	—
FP16	165.2	—
FP8	330.3	522.2
FP6	—	—
FP4	—	—
INT8	660.6	—

SPECIFICATIONS

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX 5000 Ada 32GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2022	2023
Form Factor	PCIe	PCIe
Memory Type	—	—
Interface Width	—	256-bit
Interconnect	—	—

	NVIDIA GeForce RTX 4090 24GB	NVIDIA RTX 5000 Ada 32GB
TDP	450 W	250 W
FP32 Efficiency	0.18 TFLOPS/W	0.26 TFLOPS/W