

NVIDIA RTX 4000 SFF Ada 20GB vs NVIDIA GeForce RTX 4090 24GB

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

OVERVIEW

	NVIDIA RTX 4000 SFF Ada 20GB	NVIDIA GeForce RTX 4090 24GB
FP32 TFLOPS	19.2	82.6
VRAM	20 GB	24 GB
Memory Bandwidth	280 GB/s	1.0 TB/s
TDP	70 W	450 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX 4000 SFF Ada 20GB peak TFLOPS (dense)	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)
FP64	0.3	1.3
FP32	19.2	82.6
TF32	—	82.6
BF16	—	165.2
FP16	—	165.2
FP8	153.4	330.3
FP6	—	—
FP4	—	—
INT8	—	660.6

SPECIFICATIONS

	NVIDIA RTX 4000 SFF Ada 20GB	NVIDIA GeForce RTX 4090 24GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2023	2022
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	160-bit	—

	NVIDIA RTX 4000 SFF Ada 20GB	NVIDIA GeForce RTX 4090 24GB
Interconnect	—	—
TDP	70 W	450 W
FP32 Efficiency	0.27 TFLOPS/W	0.18 TFLOPS/W