



AMD Radeon RX 9070 GRE 12GB vs NVIDIA GeForce RTX 4090 D 24GB

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

OVERVIEW

	AMD Radeon RX 9070 GRE 12GB	NVIDIA GeForce RTX 4090 D 24GB
FP32 TFLOPS	34.3	73.5
Memory	12 GB	24 GB
Memory Bandwidth	432 GB/s	—
TDP	220 W	425 W

PERFORMANCE BY PRECISION

Precision	AMD Radeon RX 9070 GRE 12GB peak TFLOPS (dense)	NVIDIA GeForce RTX 4090 D 24GB peak TFLOPS (dense)
FP64	—	1.1
FP32	34.3	73.5
TF32	—	73.5
BF16	—	147.1
FP16	137.0	147.1
FP8	274.0	294.2
FP6	—	—
FP4	—	—
INT8	274.0	588.4
INT4	549.0	—

SPECIFICATIONS

	AMD Radeon RX 9070 GRE 12GB	NVIDIA GeForce RTX 4090 D 24GB
Architecture	RDNA 4	Ada Lovelace
Process Node	—	4nm
Launch Year	2025	2023
Form Factor	PCIe	PCIe

	AMD Radeon RX 9070 GRE 12GB	NVIDIA GeForce RTX 4090 D 24GB
Memory Type	GDDR6	GDDR6X
Interface Width	192-bit	384-bit
Interconnect	—	—
TDP	220 W	425 W
FP32 Efficiency	0.16 TFLOPS/W	0.17 TFLOPS/W