



NVIDIA DGX Spark vs NVIDIA GeForce RTX 4090 24GB

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

OVERVIEW

	NVIDIA DGX Spark	NVIDIA GeForce RTX 4090 24GB
FP32 TFLOPS	—	82.6
VRAM	128 GB	24 GB
Memory Bandwidth	273 GB/s	1.0 TB/s
TDP	140 W	450 W

PERFORMANCE BY PRECISION

Precision	NVIDIA DGX Spark peak TFLOPS (dense)	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)
FP64	—	1.3
FP32	—	82.6
TF32	—	82.6
BF16	—	165.2
FP16	—	165.2
FP8	—	330.3
FP6	—	—
FP4	500.0	—
INT8	—	330.3

SPECIFICATIONS

	NVIDIA DGX Spark	NVIDIA GeForce RTX 4090 24GB
Architecture	Grace Blackwell	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2025	2022
Form Factor	Desktop Workstation	PCIe
Memory Type	—	—
Interface Width	—	—
Interconnect	—	—

	NVIDIA DGX Spark	NVIDIA GeForce RTX 4090 24GB
TDP	140 W	450 W
FP32 Efficiency	—	0.18 TFLOPS/W