

NVIDIA GeForce RTX 5050 8GB vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA GeForce RTX 5050 8GB	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	13.2	104.8
VRAM	8 GB	32 GB
Memory Bandwidth	320 GB/s	1.8 TB/s
TDP	130 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5050 8GB peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
FP64	0.2	1.6
FP32	13.2	104.8
TF32	13.2	104.8
BF16	26.3	209.5
FP16	52.6	419.1
FP8	105.3	838.2
FP6	—	—
FP4	210.5	1676.0
INT8	105.3	838.2

SPECIFICATIONS

	NVIDIA GeForce RTX 5050 8GB	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR7
Interface Width	128-bit	512-bit

	NVIDIA GeForce RTX 5050 8GB	NVIDIA GeForce RTX 5090 32GB
Interconnect	—	—
TDP	130 W	575 W
FP32 Efficiency	0.10 TFLOPS/W	0.18 TFLOPS/W