



NVIDIA RTX PRO 4000 Blackwell 24GB vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA RTX PRO 4000 Blackwell 24GB	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	37.0	104.8
VRAM	24 GB	32 GB
Memory Bandwidth	672 GB/s	1.8 TB/s
TDP	145 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 4000 Blackwell 24GB peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
FP64	—	1.6
FP32	37.0	104.8
TF32	—	104.8
BF16	—	209.5
FP16	—	419.1
FP8	—	838.2
FP6	—	—
FP4	589.0	1676.0
INT8	—	838.2

SPECIFICATIONS

	NVIDIA RTX PRO 4000 Blackwell 24GB	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR7	GDDR7

	NVIDIA RTX PRO 4000 Blackwell 24GB	NVIDIA GeForce RTX 5090 32GB
Interface Width	192-bit	512-bit
Interconnect	—	—
TDP	145 W	575 W
FP32 Efficiency	0.26 TFLOPS/W	0.18 TFLOPS/W