

NVIDIA RTX PRO 6000 Blackwell Workstation Edition vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA RTX PRO 6000 Blackwell Workstation Edition	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	126.0	104.8
VRAM	96 GB	32 GB
Memory Bandwidth	1.8 TB/s	1.8 TB/s
TDP	600 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
INT8	—	838.2
FP8	—	838.2
FP4	—	1676.0
FP16	—	419.1
BF16	—	419.1
TF32	—	209.5
FP32	126.0	104.8
FP64	—	1.6

SPECIFICATIONS

	NVIDIA RTX PRO 6000 Blackwell Workstation Edition	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe

	NVIDIA RTX PRO 6000 Blackwell Workstation Edition	NVIDIA GeForce RTX 5090 32GB
Memory Type	GDDR7	GDDR7
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	600 W	575 W
FP32 Efficiency	0.21 TFLOPS/W	0.18 TFLOPS/W