

NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition vs NVIDIA GeForce RTX 5090 D 32GB

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

OVERVIEW

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	NVIDIA GeForce RTX 5090 D 32GB
FP32 TFLOPS	109.7	104.8
VRAM	96 GB	32 GB
Memory Bandwidth	1.8 TB/s	—
TDP	300 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 D 32GB peak TFLOPS (dense)
FP64	1.7	1.6
FP32	109.7	104.8
TF32	219.5	—
BF16	438.9	—
FP16	438.9	—
FP8	877.9	—
FP6	—	—
FP4	1755.7	1187.5
INT8	877.9	—

SPECIFICATIONS

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	NVIDIA GeForce RTX 5090 D 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	NVIDIA GeForce RTX 5090 D 32GB
Form Factor	PCIe	PCIe
Memory Type	GDDR7	GDDR7
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	300 W	575 W
FP32 Efficiency	0.37 TFLOPS/W	0.18 TFLOPS/W