

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

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

OVERVIEW

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

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5090 D 32GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense)
FP64	1.6	2.0
FP32	104.8	126.0
TF32	—	251.9
BF16	—	503.8
FP16	—	503.8
FP8	—	1007.6
FP6	—	—
FP4	1187.5	2015.2
INT8	—	1007.6

SPECIFICATIONS

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

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