

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

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

OVERVIEW

	NVIDIA GeForce RTX 5090 D 32GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
FP32 TFLOPS	104.8	120.0
VRAM	32 GB	96 GB
Memory Bandwidth	—	1.6 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 Server Edition peak TFLOPS (dense)
FP64	1.6	—
FP32	104.8	120.0
TF32	—	234.0
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	1187.5	—
INT8	—	—

SPECIFICATIONS

	NVIDIA GeForce RTX 5090 D 32GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR7	GDDR7

	NVIDIA GeForce RTX 5090 D 32GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	575 W	600 W
FP32 Efficiency	0.18 TFLOPS/W	0.20 TFLOPS/W