

NVIDIA RTX PRO 5500 Blackwell Workstation Edition vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA RTX PRO 5500 Blackwell Workstation Edition	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	—	104.8
Memory	84 GB	32 GB
Memory Bandwidth	1.4 TB/s	1.8 TB/s
TDP	600 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 5500 Blackwell Workstation Edition peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
FP64	—	1.6
FP32	—	104.8
TF32	—	104.8
BF16	—	209.5
FP16	—	419.1
FP8	—	838.2
FP6	—	—
FP4	—	1676.0
INT8	—	838.2

SPECIFICATIONS

	NVIDIA RTX PRO 5500 Blackwell Workstation Edition	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2026	2025
Form Factor	PCIe	PCIe

NVIDIA RTX PRO 5500 Blackwell Workstation Edition		NVIDIA GeForce RTX 5090 32GB
Memory Type	GDDR7	GDDR7
Interface Width	416-bit	512-bit
Interconnect	—	—
TDP	600 W	575 W
FP32 Efficiency	—	0.18 TFLOPS/W