NVIDIA RTX PRO 2000 Blackwell 16GB vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA RTX PRO 2000 Blackwell 16GB	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	**17.0**	**104.8**
VRAM	**16 GB**	**32 GB**
Memory Bandwidth	**288 GB/s**	**1.8 TB/s**
TDP	**70 W**	**575 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 2000 Blackwell 16GB peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
FP64	–	1.6
FP32	17.0	104.8
TF32	–	104.8
BF16	–	209.5
FP16	–	419.1
FP8	–	838.2
FP6	–	–
FP4	272.5	1676.0
INT8	–	838.2

SPECIFICATIONS

	NVIDIA RTX PRO 2000 Blackwell 16GB	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR7	GDDR7

	NVIDIA RTX PRO 2000 Blackwell 16GB	NVIDIA GeForce RTX 5090 32GB
Interface Width	128-bit	512-bit
Interconnect	–	–
TDP	70 W	575 W
FP32 Efficiency	0.24 TFLOPS/W	0.18 TFLOPS/W