NVIDIA GeForce RTX 5050 8GB vs NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition

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

OVERVIEW

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
FP32 TFLOPS	**13.2**	**109.7**
VRAM	**8 GB**	**96 GB**
Memory Bandwidth	**320 GB/s**	**1.8 TB/s**
TDP	**130 W**	**300 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5050 8GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition peak TFLOPS (dense)
FP64	0.2	1.7
FP32	13.2	109.7
TF32	13.2	219.5
BF16	26.3	438.9
FP16	52.6	438.9
FP8	105.3	877.9
FP6	—	—
FP4	210.5	1755.7
INT8	105.3	877.9

SPECIFICATIONS

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR7
Interface Width	128-bit	512-bit
Interconnect	–	–
TDP	130 W	300 W
FP32 Efficiency	0.10 TFLOPS/W	0.37 TFLOPS/W