

NVIDIA GeForce RTX 5050 8GB vs NVIDIA RTX PRO 6000 Blackwell Server Edition

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

OVERVIEW

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
FP32 TFLOPS	13.2	120.0
VRAM	8 GB	96 GB
Memory Bandwidth	320 GB/s	1.6 TB/s
TDP	130 W	600 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5050 8GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Server Edition peak TFLOPS (dense)
FP64	0.2	—
FP32	13.2	120.0
TF32	13.2	234.0
BF16	26.3	—
FP16	52.6	—
FP8	105.3	—
FP6	—	—
FP4	210.5	—
INT8	105.3	—

SPECIFICATIONS

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR7

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Interface Width	128-bit	512-bit
Interconnect	—	—
TDP	130 W	600 W
FP32 Efficiency	0.10 TFLOPS/W	0.20 TFLOPS/W