

NVIDIA GeForce RTX 5080 16GB vs NVIDIA RTX PRO 6000 Blackwell Workstation Edition

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

OVERVIEW

	NVIDIA GeForce RTX 5080 16GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
FP32 TFLOPS	56.3	126.0
VRAM	16 GB	96 GB
Memory Bandwidth	960 GB/s	1.8 TB/s
TDP	360 W	600 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5080 16GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense)
FP64	0.9	2.0
FP32	56.3	126.0
TF32	56.3	251.9
BF16	112.6	503.8
FP16	225.1	503.8
FP8	450.2	1007.6
FP6	—	—
FP4	900.5	2015.2
INT8	450.2	1007.6

SPECIFICATIONS

	NVIDIA GeForce RTX 5080 16GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe

NVIDIA GeForce RTX 5080 16GB		NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Memory Type	GDDR7	GDDR7
Interface Width	256-bit	512-bit
Interconnect	—	—
TDP	360 W	600 W
FP32 Efficiency	0.16 TFLOPS/W	0.21 TFLOPS/W