

AMD Radeon PRO W7800 48GB vs NVIDIA Quadro RTX 5000 16GB

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

OVERVIEW

	AMD Radeon PRO W7800 48GB	NVIDIA Quadro RTX 5000 16GB
FP32 TFLOPS	45.2	11.2
Memory	48 GB	16 GB
Memory Bandwidth	864 GB/s	448 GB/s
TDP	260 W	265 W

PERFORMANCE BY PRECISION

Precision	AMD Radeon PRO W7800 48GB peak TFLOPS (dense)	NVIDIA Quadro RTX 5000 16GB peak TFLOPS (dense)
FP64	—	0.3
FP32	45.2	11.2
TF32	—	—
BF16	—	—
FP16	90.4	89.2
FP8	—	—
FP6	—	—
FP4	—	—
INT8	90.4	178.4
INT4	181.0	356.8

SPECIFICATIONS

	AMD Radeon PRO W7800 48GB	NVIDIA Quadro RTX 5000 16GB
Architecture	RDNA 3	Turing
Process Node	5nm	12nm
Launch Year	2024	2018
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6

	AMD Radeon PRO W7800 48GB	NVIDIA Quadro RTX 5000 16GB
Interface Width	384-bit	256-bit
Interconnect	—	NVLink
TDP	260 W	265 W
FP32 Efficiency	0.17 TFLOPS/W	0.04 TFLOPS/W