

AMD Radeon RX 6800 XT 16GB vs NVIDIA GeForce RTX 3070 8GB

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

OVERVIEW

	AMD Radeon RX 6800 XT 16GB	NVIDIA GeForce RTX 3070 8GB
FP32 TFLOPS	20.7	20.3
Memory	16 GB	8 GB
Memory Bandwidth	512 GB/s	448 GB/s
TDP	300 W	220 W

PERFORMANCE BY PRECISION

Precision	AMD Radeon RX 6800 XT 16GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3070 8GB peak TFLOPS (dense)
FP64	—	0.3
FP32	20.7	20.3
TF32	—	20.3
BF16	—	40.6
FP16	41.5	40.6
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	162.6
INT4	—	325.2

SPECIFICATIONS

	AMD Radeon RX 6800 XT 16GB	NVIDIA GeForce RTX 3070 8GB
Architecture	RDNA 2	Ampere
Process Node	7nm	8nm
Launch Year	2020	2020
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6

	AMD Radeon RX 6800 XT 16GB	NVIDIA GeForce RTX 3070 8GB
Interface Width	256-bit	256-bit
Interconnect	—	—
TDP	300 W	220 W
FP32 Efficiency	0.07 TFLOPS/W	0.09 TFLOPS/W