



NVIDIA GeForce RTX 3070 8GB vs NVIDIA A100 PCIe 80GB

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

OVERVIEW

	NVIDIA GeForce RTX 3070 8GB	NVIDIA A100 PCIe 80GB
FP32 TFLOPS	20.3	19.5
Memory	8 GB	80 GB
Memory Bandwidth	448 GB/s	1.9 TB/s
TDP	220 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3070 8GB peak TFLOPS (dense)	NVIDIA A100 PCIe 80GB peak TFLOPS (dense)
FP64	0.3	9.7
FP32	20.3	19.5
TF32	20.3	156.0
BF16	40.6	312.0
FP16	40.6	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	162.6	624.0
INT4	325.2	1248.0

SPECIFICATIONS

	NVIDIA GeForce RTX 3070 8GB	NVIDIA A100 PCIe 80GB
Architecture	Ampere	Ampere
Process Node	8nm	—
Launch Year	2020	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	HBM2e
Interface Width	256-bit	5120-bit

	NVIDIA GeForce RTX 3070 8GB	NVIDIA A100 PCIe 80GB
Interconnect	—	—
TDP	220 W	300 W
FP32 Efficiency	0.09 TFLOPS/W	0.07 TFLOPS/W