NVIDIA GeForce RTX 3070 8GB vs NVIDIA A100 SXM4 80GB

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

OVERVIEW

	NVIDIA GeForce RTX 3070 8GB	NVIDIA A100 SXM4 80GB
FP32 TFLOPS	**20.3**	**19.5**
Memory	**8 GB**	**80 GB**
Memory Bandwidth	**448 GB/s**	**2.0 TB/s**
TDP	**220 W**	**400 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3070 8GB peak TFLOPS (dense)	NVIDIA A100 SXM4 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 SXM4 80GB
Architecture	Ampere	Ampere
Process Node	8nm	7nm
Launch Year	2020	2020
Form Factor	PCIe	SXM
Memory Type	GDDR6	–
Interface Width	256-bit	–

	NVIDIA GeForce RTX 3070 8GB	NVIDIA A100 SXM4 80GB
Interconnect	–	–
TDP	220 W	400 W
FP32 Efficiency	0.09 TFLOPS/W	0.05 TFLOPS/W