NVIDIA GeForce RTX 3080 10GB vs NVIDIA A100 SXM4 80GB

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

OVERVIEW

	NVIDIA GeForce RTX 3080 10GB	NVIDIA A100 SXM4 80GB
FP32 TFLOPS	**29.8**	**19.5**
Memory	**10 GB**	**80 GB**
Memory Bandwidth	**760 GB/s**	**2.0 TB/s**
TDP	**320 W**	**400 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3080 10GB peak TFLOPS (dense)	NVIDIA A100 SXM4 80GB peak TFLOPS (dense)
FP64	0.5	9.7
FP32	29.8	19.5
TF32	29.8	156.0
BF16	59.5	312.0
FP16	59.5	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	238.0	624.0
INT4	476.0	1248.0

SPECIFICATIONS

	NVIDIA GeForce RTX 3080 10GB	NVIDIA A100 SXM4 80GB
Architecture	Ampere	Ampere
Process Node	8nm	7nm
Launch Year	2020	2020
Form Factor	PCIe	SXM
Memory Type	GDDR6X	—
Interface Width	320-bit	—

	NVIDIA GeForce RTX 3080 10GB	NVIDIA A100 SXM4 80GB
Interconnect	–	–
TDP	320 W	400 W
FP32 Efficiency	0.09 TFLOPS/W	0.05 TFLOPS/W