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

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

OVERVIEW

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

PERFORMANCE BY PRECISION

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

SPECIFICATIONS

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

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