NVIDIA A100 PCIe 80GB vs NVIDIA GeForce RTX 3060 8GB

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

OVERVIEW

	NVIDIA A100 PCIe 80GB	NVIDIA GeForce RTX 3060 8GB
FP32 TFLOPS	**19.5**	**12.7**
Memory	**80 GB**	**8 GB**
Memory Bandwidth	**1.9 TB/s**	**—**
TDP	**300 W**	**170 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 PCIe 80GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3060 8GB peak TFLOPS (dense)
FP64	9.7	0.2
FP32	19.5	12.7
TF32	156.0	12.7
BF16	312.0	25.5
FP16	312.0	25.5
FP8	—	—
FP6	—	—
FP4	—	—
INT8	624.0	101.9
INT4	1248.0	203.8

SPECIFICATIONS

	NVIDIA A100 PCIe 80GB	NVIDIA GeForce RTX 3060 8GB
Architecture	Ampere	Ampere
Process Node	—	8nm
Launch Year	2021	2022
Form Factor	PCIe	PCIe
Memory Type	HBM2e	GDDR6
Interface Width	5120-bit	128-bit

	NVIDIA A100 PCIe 80GB	NVIDIA GeForce RTX 3060 8GB
Interconnect	–	–
TDP	300 W	170 W
FP32 Efficiency	0.07 TFLOPS/W	0.07 TFLOPS/W