



NVIDIA A100 PCIe 40GB vs NVIDIA Jetson Orin NX 8GB

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

OVERVIEW

	NVIDIA A100 PCIe 40GB	NVIDIA Jetson Orin NX 8GB
FP32 TFLOPS	19.5	2.4
Memory	40 GB	8 GB
Memory Bandwidth	1.6 TB/s	102 GB/s
TDP	250 W	40 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 PCIe 40GB peak TFLOPS (dense)	NVIDIA Jetson Orin NX 8GB peak TFLOPS (dense)
FP64	9.7	—
FP32	19.5	2.4
TF32	156.0	—
BF16	312.0	—
FP16	312.0	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	624.0	38.5
INT4	1248.0	—

SPECIFICATIONS

	NVIDIA A100 PCIe 40GB	NVIDIA Jetson Orin NX 8GB
Architecture	Ampere	Ampere
Process Node	7nm	—
Launch Year	2020	2022
Form Factor	PCIe	Module
Memory Type	—	LPDDR5
Interface Width	—	128-bit

	NVIDIA A100 PCIe 40GB	NVIDIA Jetson Orin NX 8GB
Interconnect	—	—
TDP	250 W	40 W
FP32 Efficiency	0.08 TFLOPS/W	0.06 TFLOPS/W