



NVIDIA Jetson Orin Nano Super 8GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA Jetson Orin Nano Super 8GB	NVIDIA A40 48GB
FP32 TFLOPS	—	37.4
VRAM	8 GB	48 GB
Memory Bandwidth	102 GB/s	696 GB/s
TDP	25 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA Jetson Orin Nano Super 8GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
FP64	—	—
FP32	—	37.4
TF32	—	74.8
BF16	—	149.7
FP16	—	149.7
FP8	—	—
FP6	—	—
FP4	—	—
INT8	33.0	299.3
INT4	—	598.7

SPECIFICATIONS

	NVIDIA Jetson Orin Nano Super 8GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	—	—
Launch Year	2024	2021
Form Factor	Module	PCIe
Memory Type	LPDDR5	GDDR6
Interface Width	128-bit	384-bit

	NVIDIA Jetson Orin Nano Super 8GB	NVIDIA A40 48GB
Interconnect	—	—
TDP	25 W	300 W
FP32 Efficiency	—	0.12 TFLOPS/W