



NVIDIA A30 24GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA A30 24GB	NVIDIA A40 48GB
FP32 TFLOPS	10.3	37.4
VRAM	24 GB	48 GB
Memory Bandwidth	933 GB/s	696 GB/s
TDP	165 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A30 24GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
INT8	330.0	299.3
INT4	661.0	598.7
FP16	165.0	149.7
BF16	165.0	149.7
TF32	82.0	74.8
FP32	10.3	37.4
FP64	5.2	—

SPECIFICATIONS

	NVIDIA A30 24GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	—	—
Launch Year	2021	2021
Form Factor	PCIe	PCIe
Memory Type	HBM2e	GDDR6
Interface Width	384-bit	384-bit
Interconnect	—	—
TDP	165 W	300 W
FP32 Efficiency	0.06 TFLOPS/W	0.12 TFLOPS/W

