



NVIDIA A40 48GB vs NVIDIA GeForce RTX 3090 24GB

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

OVERVIEW

	NVIDIA A40 48GB	NVIDIA GeForce RTX 3090 24GB
FP32 TFLOPS	37.4	35.6
VRAM	48 GB	24 GB
Memory Bandwidth	696 GB/s	936 GB/s
TDP	300 W	350 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A40 48GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3090 24GB peak TFLOPS (dense)
INT8	299.3	284.0
INT4	598.7	568.0
FP16	149.7	71.0
BF16	149.7	71.0
TF32	74.8	35.6
FP32	37.4	35.6
FP64	—	0.6

SPECIFICATIONS

	NVIDIA A40 48GB	NVIDIA GeForce RTX 3090 24GB
Architecture	Ampere	Ampere
Process Node	—	8nm
Launch Year	2021	2020
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	384-bit	—
Interconnect	—	—
TDP	300 W	350 W
FP32 Efficiency	0.12 TFLOPS/W	0.10 TFLOPS/W

