



NVIDIA GeForce RTX 3090 24GB vs NVIDIA A40 48GB

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

OVERVIEW

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

PERFORMANCE BY PRECISION

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

SPECIFICATIONS

	NVIDIA GeForce RTX 3090 24GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	8nm	—
Launch Year	2020	2021
Form Factor	PCIe	PCIe
Memory Type	—	GDDR6
Interface Width	—	384-bit
Interconnect	—	—

	NVIDIA GeForce RTX 3090 24GB	NVIDIA A40 48GB
TDP	350 W	300 W
FP32 Efficiency	0.10 TFLOPS/W	0.12 TFLOPS/W