



NVIDIA GeForce RTX 3090 Ti 24GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA A40 48GB
FP32 TFLOPS	40.0	37.4
VRAM	24 GB	48 GB
Memory Bandwidth	1.0 TB/s	696 GB/s
TDP	450 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3090 Ti 24GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
INT8	80.0	299.3
INT4	—	598.7
FP16	40.0	149.7
BF16	40.0	149.7
TF32	40.0	74.8
FP32	40.0	37.4
FP64	0.6	—

SPECIFICATIONS

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	8nm	—
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	—	GDDR6
Interface Width	—	384-bit
Interconnect	—	—

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA A40 48GB
TDP	450 W	300 W
FP32 Efficiency	0.09 TFLOPS/W	0.12 TFLOPS/W