

NVIDIA A40 48GB vs NVIDIA GeForce RTX 3080 Ti 12GB

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

OVERVIEW

	NVIDIA A40 48GB	NVIDIA GeForce RTX 3080 Ti 12GB
FP32 TFLOPS	37.4	34.1
VRAM	48 GB	12 GB
Memory Bandwidth	696 GB/s	912 GB/s
TDP	300 W	350 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A40 48GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3080 Ti 12GB peak TFLOPS (dense)
INT8	299.3	68.2
INT4	598.7	—
FP16	149.7	34.1
BF16	149.7	34.1
TF32	74.8	34.1
FP32	37.4	34.1
FP64	—	0.5

SPECIFICATIONS

	NVIDIA A40 48GB	NVIDIA GeForce RTX 3080 Ti 12GB
Architecture	Ampere	Ampere
Process Node	—	8nm
Launch Year	2021	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	384-bit	—
Interconnect	—	—

	NVIDIA A40 48GB	NVIDIA GeForce RTX 3080 Ti 12GB
TDP	300 W	350 W
FP32 Efficiency	0.12 TFLOPS/W	0.10 TFLOPS/W