



NVIDIA RTX A6000 48GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA RTX A6000 48GB	NVIDIA A40 48GB
FP32 TFLOPS	38.7	37.4
VRAM	48 GB	48 GB
Memory Bandwidth	768 GB/s	696 GB/s
TDP	300 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A6000 48GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
INT8	309.7	299.3
INT4	619.3	598.7
FP16	154.8	149.7
BF16	154.8	149.7
TF32	77.4	74.8
FP32	38.7	37.4
FP64	0.6	—

SPECIFICATIONS

	NVIDIA RTX A6000 48GB	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	—	—
TDP	300 W	300 W
FP32 Efficiency	0.13 TFLOPS/W	0.12 TFLOPS/W

