



NVIDIA A40 48GB vs NVIDIA RTX 6000 Ada 48GB

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

OVERVIEW

	NVIDIA A40 48GB	NVIDIA RTX 6000 Ada 48GB
FP32 TFLOPS	37.4	91.1
Memory	48 GB	48 GB
Memory Bandwidth	696 GB/s	960 GB/s
TDP	300 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A40 48GB peak TFLOPS (dense)	NVIDIA RTX 6000 Ada 48GB peak TFLOPS (dense)
FP64	—	—
FP32	37.4	91.1
TF32	74.8	—
BF16	149.7	—
FP16	149.7	—
FP8	—	728.5
FP6	—	—
FP4	—	—
INT8	299.3	—
INT4	598.7	—

SPECIFICATIONS

	NVIDIA A40 48GB	NVIDIA RTX 6000 Ada 48GB
Architecture	Ampere	Ada Lovelace
Process Node	—	4nm
Launch Year	2021	2023
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	384-bit	—

	NVIDIA A40 48GB	NVIDIA RTX 6000 Ada 48GB
Interconnect	—	—
TDP	300 W	300 W
FP32 Efficiency	0.12 TFLOPS/W	0.30 TFLOPS/W