



NVIDIA RTX A2000 6GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA RTX A2000 6GB	NVIDIA A40 48GB
FP32 TFLOPS	8.0	37.4
VRAM	6 GB	48 GB
Memory Bandwidth	288 GB/s	696 GB/s
TDP	70 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A2000 6GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
FP64	0.1	—
FP32	8.0	37.4
TF32	—	74.8
BF16	—	149.7
FP16	—	149.7
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	299.3
INT4	—	598.7

SPECIFICATIONS

	NVIDIA RTX A2000 6GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	8nm	—
Launch Year	2021	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	192-bit	384-bit

	NVIDIA RTX A2000 6GB	NVIDIA A40 48GB
Interconnect	—	—
TDP	70 W	300 W
FP32 Efficiency	0.11 TFLOPS/W	0.12 TFLOPS/W