



NVIDIA RTX A2000 12GB vs NVIDIA A100 PCIe 40GB

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

OVERVIEW

	NVIDIA RTX A2000 12GB	NVIDIA A100 PCIe 40GB
FP32 TFLOPS	8.0	19.5
Memory	12 GB	40 GB
Memory Bandwidth	288 GB/s	1.6 TB/s
TDP	70 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A2000 12GB peak TFLOPS (dense)	NVIDIA A100 PCIe 40GB peak TFLOPS (dense)
FP64	0.1	9.7
FP32	8.0	19.5
TF32	8.0	156.0
BF16	8.0	312.0
FP16	8.0	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	16.0	624.0
INT4	—	1248.0

SPECIFICATIONS

	NVIDIA RTX A2000 12GB	NVIDIA A100 PCIe 40GB
Architecture	Ampere	Ampere
Process Node	8nm	7nm
Launch Year	2022	2020
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	192-bit	—

	NVIDIA RTX A2000 12GB	NVIDIA A100 PCIe 40GB
Interconnect	—	—
TDP	70 W	250 W
FP32 Efficiency	0.11 TFLOPS/W	0.08 TFLOPS/W