



NVIDIA RTX A2000 12GB vs NVIDIA A100 PCIe 80GB

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

OVERVIEW

	NVIDIA RTX A2000 12GB	NVIDIA A100 PCIe 80GB
FP32 TFLOPS	8.0	19.5
Memory	12 GB	80 GB
Memory Bandwidth	288 GB/s	1.9 TB/s
TDP	70 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX A2000 12GB peak TFLOPS (dense)	NVIDIA A100 PCIe 80GB 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 80GB
Architecture	Ampere	Ampere
Process Node	8nm	—
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	HBM2e
Interface Width	192-bit	5120-bit

	NVIDIA RTX A2000 12GB	NVIDIA A100 PCIe 80GB
Interconnect	—	—
TDP	70 W	300 W
FP32 Efficiency	0.11 TFLOPS/W	0.07 TFLOPS/W