

NVIDIA A100 PCIe 80GB vs NVIDIA RTX A6000 48GB

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

OVERVIEW

	NVIDIA A100 PCIe 80GB	NVIDIA RTX A6000 48GB
FP32 TFLOPS	19.5	38.7
VRAM	80 GB	48 GB
Memory Bandwidth	1.9 TB/s	768 GB/s
TDP	300 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 PCIe 80GB peak TFLOPS (dense)	NVIDIA RTX A6000 48GB peak TFLOPS (dense)
INT8	624.0	309.7
INT4	1248.0	619.3
FP16	312.0	154.8
BF16	312.0	154.8
TF32	156.0	77.4
FP32	19.5	38.7
FP64	9.7	0.6

SPECIFICATIONS

	NVIDIA A100 PCIe 80GB	NVIDIA RTX A6000 48GB
Architecture	Ampere	Ampere
Process Node	—	8nm
Launch Year	2021	2020
Form Factor	PCIe	PCIe
Memory Type	HBM2e	—
Interface Width	5120-bit	—
Interconnect	—	—
TDP	300 W	300 W
FP32 Efficiency	0.07 TFLOPS/W	0.13 TFLOPS/W

