NVIDIA A16 16GB vs NVIDIA A800 PCIe 80GB

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

OVERVIEW

	NVIDIA A16 16GB	NVIDIA A800 PCIe 80GB
FP32 TFLOPS	**4.5**	**19.5**
Memory	**16 GB**	**80 GB**
Memory Bandwidth	**200 GB/s**	**1.9 TB/s**
TDP	**—**	**300 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA A16 16GB peak TFLOPS (dense)	NVIDIA A800 PCIe 80GB peak TFLOPS (dense)
FP64	—	9.7
FP32	4.5	19.5
TF32	9.0	156.0
BF16	—	312.0
FP16	17.9	312.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	35.9	624.0
INT4	—	1248.0

SPECIFICATIONS

	NVIDIA A16 16GB	NVIDIA A800 PCIe 80GB
Architecture	Ampere	Ampere
Process Node	—	7nm
Launch Year	2021	2022
Form Factor	PCIe	PCIe
Memory Type	GDDR6	HBM2e
Interface Width	—	—

	NVIDIA A16 16GB	NVIDIA A800 PCIe 80GB
Interconnect	–	–
TDP	–	300 W
FP32 Efficiency	–	0.07 TFLOPS/W