NVIDIA A100 PCIe 40GB vs NVIDIA L4 24GB

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

OVERVIEW

	NVIDIA A100 PCIe 40GB	NVIDIA L4 24GB
FP32 TFLOPS	**19.5**	**30.3**
Memory	**40 GB**	**24 GB**
Memory Bandwidth	**1.6 TB/s**	**300 GB/s**
TDP	**250 W**	**72 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA A100 PCIe 40GB peak TFLOPS (dense)	NVIDIA L4 24GB peak TFLOPS (dense)
FP64	9.7	0.4
FP32	19.5	30.3
TF32	156.0	60.0
BF16	312.0	121.0
FP16	312.0	121.0
FP8	–	242.5
FP6	–	–
FP4	–	–
INT8	624.0	242.5
INT4	1248.0	–

SPECIFICATIONS

	NVIDIA A100 PCIe 40GB	NVIDIA L4 24GB
Architecture	Ampere	Ada Lovelace
Process Node	7nm	4nm
Launch Year	2020	2023
Form Factor	PCIe	PCIe
Memory Type	–	–
Interface Width	–	–

	NVIDIA A100 PCIe 40GB	NVIDIA L4 24GB
Interconnect	–	–
TDP	250 W	72 W
FP32 Efficiency	0.08 TFLOPS/W	0.42 TFLOPS/W