



NVIDIA RTX 4000 Ada 20GB vs NVIDIA L40 48GB

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

OVERVIEW

	NVIDIA RTX 4000 Ada 20GB	NVIDIA L40 48GB
FP32 TFLOPS	26.7	90.5
VRAM	20 GB	48 GB
Memory Bandwidth	360 GB/s	864 GB/s
TDP	130 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX 4000 Ada 20GB peak TFLOPS (dense)	NVIDIA L40 48GB peak TFLOPS (dense)
FP64	0.4	—
FP32	26.7	90.5
TF32	—	90.5
BF16	—	181.1
FP16	—	181.1
FP8	213.8	362.0
FP6	—	—
FP4	—	—
INT8	—	362.0
INT4	—	724.0

SPECIFICATIONS

	NVIDIA RTX 4000 Ada 20GB	NVIDIA L40 48GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2023	2023
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	160-bit	—

	NVIDIA RTX 4000 Ada 20GB	NVIDIA L40 48GB
Interconnect	—	—
TDP	130 W	300 W
FP32 Efficiency	0.21 TFLOPS/W	0.30 TFLOPS/W