



NVIDIA L40 48GB vs NVIDIA RTX 5000 Ada 32GB

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

OVERVIEW

	NVIDIA L40 48GB	NVIDIA RTX 5000 Ada 32GB
FP32 TFLOPS	90.5	65.3
Memory	48 GB	32 GB
Memory Bandwidth	864 GB/s	576 GB/s
TDP	300 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA L40 48GB peak TFLOPS (dense)	NVIDIA RTX 5000 Ada 32GB peak TFLOPS (dense)
FP64	—	—
FP32	90.5	65.3
TF32	90.5	—
BF16	181.1	—
FP16	181.1	—
FP8	362.0	522.2
FP6	—	—
FP4	—	—
INT8	362.0	—
INT4	724.0	—

SPECIFICATIONS

	NVIDIA L40 48GB	NVIDIA RTX 5000 Ada 32GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2023	2023
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	—	256-bit

	NVIDIA L40 48GB	NVIDIA RTX 5000 Ada 32GB
Interconnect	—	—
TDP	300 W	250 W
FP32 Efficiency	0.30 TFLOPS/W	0.26 TFLOPS/W