



AMD Radeon AI PRO R9700 32GB vs NVIDIA L40 48GB

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

OVERVIEW

	AMD Radeon AI PRO R9700 32GB	NVIDIA L40 48GB
FP32 TFLOPS	47.8	90.5
Memory	32 GB	48 GB
Memory Bandwidth	640 GB/s	864 GB/s
TDP	300 W	300 W

PERFORMANCE BY PRECISION

Precision	AMD Radeon AI PRO R9700 32GB peak TFLOPS (dense)	NVIDIA L40 48GB peak TFLOPS (dense)
FP64	—	—
FP32	47.8	90.5
TF32	—	90.5
BF16	—	181.1
FP16	191.0	181.1
FP8	383.0	362.0
FP6	—	—
FP4	—	—
INT8	383.0	362.0
INT4	766.0	724.0

SPECIFICATIONS

	AMD Radeon AI PRO R9700 32GB	NVIDIA L40 48GB
Architecture	RDNA 4	Ada Lovelace
Process Node	—	4nm
Launch Year	2025	2023
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	256-bit	—

	AMD Radeon AI PRO R9700 32GB	NVIDIA L40 48GB
Interconnect	—	—
TDP	300 W	300 W
FP32 Efficiency	0.16 TFLOPS/W	0.30 TFLOPS/W