



NVIDIA GeForce RTX 3060 12GB vs NVIDIA A40 48GB

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

OVERVIEW

	NVIDIA GeForce RTX 3060 12GB	NVIDIA A40 48GB
FP32 TFLOPS	12.7	37.4
VRAM	12 GB	48 GB
Memory Bandwidth	–	696 GB/s
TDP	170 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3060 12GB peak TFLOPS (dense)	NVIDIA A40 48GB peak TFLOPS (dense)
FP64	0.2	–
FP32	12.7	37.4
TF32	12.7	74.8
BF16	25.5	149.7
FP16	25.5	149.7
FP8	–	–
FP6	–	–
FP4	–	–
INT8	101.9	299.3
INT4	203.8	598.7

SPECIFICATIONS

	NVIDIA GeForce RTX 3060 12GB	NVIDIA A40 48GB
Architecture	Ampere	Ampere
Process Node	8nm	–
Launch Year	2021	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	192-bit	384-bit

	NVIDIA GeForce RTX 3060 12GB	NVIDIA A40 48GB
Interconnect	—	—
TDP	170 W	300 W
FP32 Efficiency	0.07 TFLOPS/W	0.12 TFLOPS/W