



NVIDIA GeForce RTX 3090 Ti 24GB vs NVIDIA GeForce RTX 3080 Ti 12GB

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

OVERVIEW

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA GeForce RTX 3080 Ti 12GB
FP32 TFLOPS	40.0	34.1
VRAM	24 GB	12 GB
Memory Bandwidth	1.0 TB/s	912 GB/s
TDP	450 W	350 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 3090 Ti 24GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3080 Ti 12GB peak TFLOPS (dense)
INT8	80.0	68.2
FP16	40.0	34.1
BF16	40.0	34.1
TF32	40.0	34.1
FP32	40.0	34.1
FP64	0.6	0.5

SPECIFICATIONS

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA GeForce RTX 3080 Ti 12GB
Architecture	Ampere	Ampere
Process Node	8nm	8nm
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	—	—
Interface Width	—	—
Interconnect	—	—

	NVIDIA GeForce RTX 3090 Ti 24GB	NVIDIA GeForce RTX 3080 Ti 12GB
TDP	450 W	350 W
FP32 Efficiency	0.09 TFLOPS/W	0.10 TFLOPS/W