



NVIDIA GeForce GTX 1080 8GB vs NVIDIA Titan Xp 12GB

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

OVERVIEW

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Titan Xp 12GB
FP32 TFLOPS	8.9	12.2
Memory	8 GB	12 GB
Memory Bandwidth	320 GB/s	548 GB/s
TDP	180 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce GTX 1080 8GB peak TFLOPS (dense)	NVIDIA Titan Xp 12GB peak TFLOPS (dense)
FP64	—	—
FP32	8.9	12.2
TF32	—	—
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	—

SPECIFICATIONS

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Titan Xp 12GB
Architecture	Pascal	Pascal
Process Node	16nm	16nm
Launch Year	2016	2017
Form Factor	PCIe	PCIe
Memory Type	GDDR5X	GDDR5X
Interface Width	256-bit	384-bit
Interconnect	—	—

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Titan Xp 12GB
TDP	180 W	250 W
FP32 Efficiency	0.05 TFLOPS/W	0.05 TFLOPS/W