



NVIDIA Titan Xp 12GB vs NVIDIA P100 PCIe 16GB

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

OVERVIEW

	NVIDIA Titan Xp 12GB	NVIDIA P100 PCIe 16GB
FP32 TFLOPS	12.2	9.3
VRAM	12 GB	16 GB
Memory Bandwidth	548 GB/s	732 GB/s
TDP	250 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA Titan Xp 12GB peak TFLOPS (dense)	NVIDIA P100 PCIe 16GB peak TFLOPS (dense)
FP64	—	4.7
FP32	12.2	9.3
TF32	—	—
BF16	—	—
FP16	—	18.7
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	—

SPECIFICATIONS

	NVIDIA Titan Xp 12GB	NVIDIA P100 PCIe 16GB
Architecture	Pascal	Pascal
Process Node	16nm	—
Launch Year	2017	2016
Form Factor	PCIe	PCIe
Memory Type	GDDR5X	HBM2
Interface Width	384-bit	4096-bit
Interconnect	—	—

	NVIDIA Titan Xp 12GB	NVIDIA P100 PCIe 16GB
TDP	250 W	250 W
FP32 Efficiency	0.05 TFLOPS/W	0.04 TFLOPS/W