



NVIDIA Titan V 12GB vs NVIDIA V100 PCIe 16GB

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

OVERVIEW

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 16GB
FP32 TFLOPS	14.9	14.0
VRAM	12 GB	16 GB
Memory Bandwidth	653 GB/s	900 GB/s
TDP	250 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA Titan V 12GB peak TFLOPS (dense)	NVIDIA V100 PCIe 16GB peak TFLOPS (dense)
FP64	7.5	7.0
FP32	14.9	14.0
TF32	—	—
BF16	—	—
FP16	110.0	112.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	—

SPECIFICATIONS

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 16GB
Architecture	Volta	Volta
Process Node	12nm	12nm
Launch Year	2017	2017
Form Factor	PCIe	PCIe
Memory Type	HBM2	HBM2
Interface Width	3072-bit	—
Interconnect	—	—

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 16GB
TDP	250 W	250 W
FP32 Efficiency	0.06 TFLOPS/W	0.06 TFLOPS/W