

NVIDIA V100 PCIe 16GB vs NVIDIA V100 SXM2 32GB

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

OVERVIEW

	NVIDIA V100 PCIe 16GB	NVIDIA V100 SXM2 32GB
FP32 TFLOPS	14.0	15.7
VRAM	16 GB	32 GB
Memory Bandwidth	900 GB/s	900 GB/s
TDP	250 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA V100 PCIe 16GB peak TFLOPS (dense)	NVIDIA V100 SXM2 32GB peak TFLOPS (dense)
FP16	112.0	125.0
FP32	14.0	15.7
FP64	7.0	7.8

SPECIFICATIONS

	NVIDIA V100 PCIe 16GB	NVIDIA V100 SXM2 32GB
Architecture	Volta	Volta
Process Node	12nm	12nm
Launch Year	2017	2018
Form Factor	PCIe	SXM
Memory Type	HBM2	HBM2
Interface Width	—	—
Interconnect	—	—
TDP	250 W	300 W
FP32 Efficiency	0.06 TFLOPS/W	0.05 TFLOPS/W