



Google TPU v5p 95GB vs NVIDIA H100 PCIe 80GB

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

OVERVIEW

	Google TPU v5p 95GB	NVIDIA H100 PCIe 80GB
FP32 TFLOPS	—	51.0
VRAM	95 GB	80 GB
Memory Bandwidth	2.8 TB/s	2.0 TB/s
TDP	450 W	350 W

PERFORMANCE BY PRECISION

Precision	Google TPU v5p 95GB peak TFLOPS (dense)	NVIDIA H100 PCIe 80GB peak TFLOPS (dense)
FP64	—	26.0
FP32	—	51.0
TF32	—	378.0
BF16	459.0	756.5
FP16	—	756.5
FP8	459.0	1513.0
FP6	—	—
FP4	—	—
INT8	—	1513.0

SPECIFICATIONS

	Google TPU v5p 95GB	NVIDIA H100 PCIe 80GB
Architecture	TPU v5p	Hopper
Process Node	5nm	4nm
Launch Year	2023	2022
Form Factor	Custom	PCIe
Memory Type	—	—
Interface Width	—	—
Interconnect	—	—

	Google TPU v5p 95GB	NVIDIA H100 PCIe 80GB
TDP	450 W	350 W
FP32 Efficiency	—	0.15 TFLOPS/W