Google TPU v5p 95GB vs NVIDIA H100 SXM5 80GB

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

OVERVIEW

	Google TPU v5p 95GB	NVIDIA H100 SXM5 80GB
FP32 TFLOPS	—	**67.0**
Memory	**95 GB**	**80 GB**
Memory Bandwidth	**2.8 TB/s**	**3.4 TB/s**
TDP	**450 W**	**700 W**

PERFORMANCE BY PRECISION

Precision	Google TPU v5p 95GB peak TFLOPS (dense)	NVIDIA H100 SXM5 80GB peak TFLOPS (dense)
FP64	—	34.0
FP64_TC Tensor Core	—	67.0
FP32	—	67.0
TF32	—	494.0
BF16	459.0	990.0
FP16	—	990.0
FP8	459.0	1979.0
FP6	—	—
FP4	—	—
INT8	—	1979.0

SPECIFICATIONS

	Google TPU v5p 95GB	NVIDIA H100 SXM5 80GB
Architecture	TPU v5p	Hopper
Process Node	5nm	4nm
Launch Year	2023	2022
Form Factor	Custom	SXM
Memory Type	—	—

	Google TPU v5p 95GB	NVIDIA H100 SXM5 80GB
Interface Width	—	—
Interconnect	—	—
TDP	450 W	700 W
FP32 Efficiency	—	0.10 TFLOPS/W