

NVIDIA H100 SXM5 80GB vs NVIDIA GH200 96GB HBM3

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

OVERVIEW

	NVIDIA H100 SXM5 80GB	NVIDIA GH200 96GB HBM3
FP32 TFLOPS	67.0	67.0
VRAM	80 GB	96 GB
Memory Bandwidth	3.4 TB/s	4.0 TB/s
TDP	700 W	1.0 kW

PERFORMANCE BY PRECISION

Precision	NVIDIA H100 SXM5 80GB peak TFLOPS (dense)	NVIDIA GH200 96GB HBM3 peak TFLOPS (dense)
INT8	1979.0	1979.0
FP8	1979.0	1979.0
FP16	990.0	990.0
BF16	990.0	990.0
TF32	494.0	494.0
FP32	67.0	67.0
FP64_TC Tensor Core	67.0	—
FP64	34.0	34.0

SPECIFICATIONS

	NVIDIA H100 SXM5 80GB	NVIDIA GH200 96GB HBM3
Architecture	Hopper	Hopper
Process Node	4nm	4nm
Launch Year	2022	2023
Form Factor	SXM	SXM
Memory Type	—	HBM3

	NVIDIA H100 SXM5 80GB	NVIDIA GH200 96GB HBM3
Interface Width	—	—
Interconnect	—	NVLink-C2C
TDP	700 W	1.0 kW
FP32 Efficiency	0.10 TFLOPS/W	0.07 TFLOPS/W