



NVIDIA GH200 144GB HBM3e vs NVIDIA H100 SXM5 80GB

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

OVERVIEW

	NVIDIA GH200 144GB HBM3e	NVIDIA H100 SXM5 80GB
FP32 TFLOPS	67.0	67.0
Memory	144 GB	80 GB
Memory Bandwidth	4.9 TB/s	3.4 TB/s
TDP	1.0 kW	700 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GH200 144GB HBM3e peak TFLOPS (dense)	NVIDIA H100 SXM5 80GB peak TFLOPS (dense)
FP64	34.0	34.0
FP64_TC Tensor Core	67.0	67.0
FP32	67.0	67.0
TF32	494.0	494.0
BF16	990.0	990.0
FP16	990.0	990.0
FP8	1979.0	1979.0
FP6	—	—
FP4	—	—
INT8	1979.0	1979.0

SPECIFICATIONS

	NVIDIA GH200 144GB HBM3e	NVIDIA H100 SXM5 80GB
Architecture	Hopper	Hopper
Process Node	4nm	4nm
Launch Year	2024	2022
Form Factor	Superchip	SXM
Memory Type	HBM3e	—

	NVIDIA GH200 144GB HBM3e	NVIDIA H100 SXM5 80GB
Interface Width	—	—
Interconnect	NVLink-C2C	—
TDP	1.0 kW	700 W
FP32 Efficiency	0.07 TFLOPS/W	0.10 TFLOPS/W