

NVIDIA H800 PCIe 80GB vs NVIDIA GH200 144GB HBM3e

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

OVERVIEW

	NVIDIA H800 PCIe 80GB	NVIDIA GH200 144GB HBM3e
FP32 TFLOPS	51.0	67.0
VRAM	80 GB	144 GB
Memory Bandwidth	2.0 TB/s	4.9 TB/s
TDP	350 W	1.0 kW

PERFORMANCE BY PRECISION

Precision	NVIDIA H800 PCIe 80GB peak TFLOPS (dense)	NVIDIA GH200 144GB HBM3e peak TFLOPS (dense)
INT8	1513.0	1979.0
FP8	1513.0	1979.0
FP16	756.5	990.0
BF16	756.5	990.0
TF32	378.0	494.0
FP32	51.0	67.0
FP64	0.8	34.0

SPECIFICATIONS

	NVIDIA H800 PCIe 80GB	NVIDIA GH200 144GB HBM3e
Architecture	Hopper	Hopper
Process Node	4nm	4nm
Launch Year	2022	2024
Form Factor	PCIe	SXM
Memory Type	HBM3	HBM3e
Interface Width	—	—
Interconnect	—	NVLink-C2C

	NVIDIA H800 PCIe 80GB	NVIDIA GH200 144GB HBM3e
TDP	350 W	1.0 kW
FP32 Efficiency	0.15 TFLOPS/W	0.07 TFLOPS/W