

NVIDIA H800 PCIe 80GB vs NVIDIA H100 NVL 94GB

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

OVERVIEW

	NVIDIA H800 PCIe 80GB	NVIDIA H100 NVL 94GB
FP32 TFLOPS	51.0	60.0
VRAM	80 GB	94 GB
Memory Bandwidth	2.0 TB/s	3.9 TB/s
TDP	350 W	400 W

PERFORMANCE BY PRECISION

Precision	NVIDIA H800 PCIe 80GB peak TFLOPS (dense)	NVIDIA H100 NVL 94GB peak TFLOPS (dense)
INT8	1513.0	—
FP8	1513.0	—
FP16	756.5	—
BF16	756.5	—
TF32	378.0	—
FP32	51.0	60.0
FP64_TC Tensor Core	—	60.0
FP64	0.8	30.0

SPECIFICATIONS

	NVIDIA H800 PCIe 80GB	NVIDIA H100 NVL 94GB
Architecture	Hopper	Hopper
Process Node	4nm	4nm
Launch Year	2022	2023
Form Factor	PCIe	PCIe
Memory Type	HBM3	HBM3
Interface Width	—	—
Interconnect	—	—

	NVIDIA H800 PCIe 80GB	NVIDIA H100 NVL 94GB
TDP	350 W	400 W
FP32 Efficiency	0.15 TFLOPS/W	0.15 TFLOPS/W