NVIDIA Groq 3 LPU vs NVIDIA H100 PCIe 80GB

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

OVERVIEW

	NVIDIA Groq 3 LPU	NVIDIA H100 PCIe 80GB
FP32 TFLOPS	—	**51.0**
Memory	—	**80 GB**
Memory Bandwidth	—	**2.0 TB/s**
TDP	—	**350 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA Groq 3 LPU peak TFLOPS (dense)	NVIDIA H100 PCIe 80GB peak TFLOPS (dense)
FP64	—	26.0
FP32	—	51.0
TF32	—	378.0
BF16	—	756.5
FP16	—	756.5
FP8	1200.0	1513.0
FP6	—	—
FP4	—	—
INT8	—	1513.0

SPECIFICATIONS

	NVIDIA Groq 3 LPU	NVIDIA H100 PCIe 80GB
Architecture	Groq LPU	Hopper
Process Node	—	4nm
Launch Year	2026	2022
Form Factor	—	PCIe
Memory Type	On-die SRAM	—
Interface Width	—	—
Interconnect	LPU C2C	—

	NVIDIA Groq 3 LPU	NVIDIA H100 PCIe 80GB
TDP	—	350 W
FP32 Efficiency	—	0.15 TFLOPS/W