AWS Trainium3 vs NVIDIA Groq 3 LPU

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

OVERVIEW

	AWS Trainium3	NVIDIA Groq 3 LPU
FP32 TFLOPS	**183.0**	–
Memory	**144 GB**	–
Memory Bandwidth	**4.9 TB/s**	–
TDP	–	–

PERFORMANCE BY PRECISION

Precision	AWS Trainium3 peak TFLOPS (dense)	NVIDIA Groq 3 LPU peak TFLOPS (dense)
FP64	–	–
FP32	183.0	–
TF32	671.0	–
BF16	671.0	–
FP16	671.0	–
FP8	2517.0	1200.0
FP6	–	–
FP4	2517.0	–
INT8	–	–

SPECIFICATIONS

	AWS Trainium3	NVIDIA Groq 3 LPU
Architecture	NeuronCore-v4	Groq LPU
Process Node	3nm	–
Launch Year	2025	2026
Form Factor	–	–
Memory Type	HBM3e	On-die SRAM
Interface Width	–	–
Interconnect	NeuronLink-v4	LPU C2C

	AWS Trainium3	NVIDIA Groq 3 LPU
TDP	–	–
FP32 Efficiency	–	–