

NVIDIA B100 SXM 192GB vs NVIDIA GeForce RTX 5090 32GB

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

OVERVIEW

	NVIDIA B100 SXM 192GB	NVIDIA GeForce RTX 5090 32GB
FP32 TFLOPS	60.0	104.8
VRAM	192 GB	32 GB
Memory Bandwidth	8.0 TB/s	1.8 TB/s
TDP	700 W	575 W

PERFORMANCE BY PRECISION

Precision	NVIDIA B100 SXM 192GB peak TFLOPS (dense)	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)
INT8	3500.0	838.2
FP8	3500.0	838.2
FP4	7000.0	1676.0
FP16	1750.0	419.1
BF16	1750.0	419.1
TF32	875.0	209.5
FP32	60.0	104.8
FP64	30.0	1.6

SPECIFICATIONS

	NVIDIA B100 SXM 192GB	NVIDIA GeForce RTX 5090 32GB
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2024	2025
Form Factor	SXM	PCIe
Memory Type	—	GDDR7
Interface Width	—	512-bit

	NVIDIA B100 SXM 192GB	NVIDIA GeForce RTX 5090 32GB
Interconnect	—	—
TDP	700 W	575 W
FP32 Efficiency	0.09 TFLOPS/W	0.18 TFLOPS/W