Biren BR100 vs NVIDIA GH200 144GB HBM3e

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

OVERVIEW

	Biren BR100	NVIDIA GH200 144GB HBM3e
FP32 TFLOPS	**256.0**	**67.0**
Memory	**64 GB**	**144 GB**
Memory Bandwidth	**1.6 TB/s**	**4.9 TB/s**
TDP	**550 W**	**1.0 kW**

PERFORMANCE BY PRECISION

Precision	Biren BR100 peak TFLOPS (dense)	NVIDIA GH200 144GB HBM3e peak TFLOPS (dense)
FP64	—	34.0
FP64_TC Tensor Core	—	67.0
FP32	256.0	67.0
TF32	512.0	494.0
BF16	1024.0	990.0
FP16	—	990.0
FP8	—	1979.0
FP6	—	—
FP4	—	—
INT8	2048.0	1979.0

SPECIFICATIONS

	Biren BR100	NVIDIA GH200 144GB HBM3e
Architecture	Biren SPC	Hopper
Process Node	TSMC 7nm	4nm
Launch Year	2022	2024
Form Factor	OAM	Superchip
Memory Type	HBM2E	HBM3e

	Biren BR100	NVIDIA GH200 144GB HBM3e
Interface Width	—	—
Interconnect	BLink	NVLink-C2C
TDP	550 W	1.0 kW
FP32 Efficiency	0.47 TFLOPS/W	0.07 TFLOPS/W