Biren BR100 vs NVIDIA H100 SXM5 80GB

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

OVERVIEW

	Biren BR100	NVIDIA H100 SXM5 80GB
FP32 TFLOPS	**256.0**	**67.0**
Memory	**64 GB**	**80 GB**
Memory Bandwidth	**1.6 TB/s**	**3.4 TB/s**
TDP	**550 W**	**700 W**

PERFORMANCE BY PRECISION

Precision	Biren BR100 peak TFLOPS (dense)	NVIDIA H100 SXM5 80GB 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 H100 SXM5 80GB
Architecture	Biren SPC	Hopper
Process Node	TSMC 7nm	4nm
Launch Year	2022	2022
Form Factor	OAM	SXM
Memory Type	HBM2E	–
Interface Width	–	–

	Biren BR100	NVIDIA H100 SXM5 80GB
Interconnect	BLink	–
TDP	550 W	700 W
FP32 Efficiency	0.47 TFLOPS/W	0.10 TFLOPS/W