Huawei Ascend 910C vs NVIDIA H20 96GB

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

OVERVIEW

	Huawei Ascend 910C	NVIDIA H20 96GB
FP32 TFLOPS	**50.0**	**44.0**
Memory	**128 GB**	**96 GB**
Memory Bandwidth	**3.2 TB/s**	**4.0 TB/s**
TDP	**600 W**	**400 W**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 910C peak TFLOPS (dense)	NVIDIA H20 96GB peak TFLOPS (dense)
FP64	—	1.0
FP32	50.0	44.0
TF32	—	74.0
BF16	800.0	148.0
FP16	800.0	148.0
FP8	—	296.0
FP6	—	—
FP4	—	—
INT8	1600.0	296.0

SPECIFICATIONS

	Huawei Ascend 910C	NVIDIA H20 96GB
Architecture	Da Vinci v2 (dual-die)	Hopper
Process Node	SMIC 7nm	4nm
Launch Year	2025	2024
Form Factor	OAM	SXM
Memory Type	HBM2e	HBM3
Interface Width	—	—
Interconnect	Unified Bus (UB)	—

	Huawei Ascend 910C	NVIDIA H20 96GB
TDP	600 W	400 W
FP32 Efficiency	0.08 TFLOPS/W	0.11 TFLOPS/W