Huawei Ascend 910A vs Huawei Ascend 910B

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

OVERVIEW

	Huawei Ascend 910A	Huawei Ascend 910B
FP32 TFLOPS	**16.0**	**—**
Memory	**32 GB**	**64 GB**
Memory Bandwidth	**1.2 TB/s**	**1.6 TB/s**
TDP	**310 W**	**400 W**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 910A peak TFLOPS (dense)	Huawei Ascend 910B peak TFLOPS (dense)
FP64	—	—
FP32	16.0	—
TF32	—	—
BF16	—	400.0
FP16	256.0	400.0
FP8	—	—
FP6	—	—
FP4	—	—
INT8	512.0	800.0

SPECIFICATIONS

	Huawei Ascend 910A	Huawei Ascend 910B
Architecture	Da Vinci	Da Vinci v2
Process Node	TSMC 7nm	SMIC 7nm
Launch Year	2019	2024
Form Factor	OAM	OAM
Memory Type	HBM2	HBM2e
Interface Width	—	—
Interconnect	HCCS	HCCS

	Huawei Ascend 910A	Huawei Ascend 910B
TDP	310 W	400 W
FP32 Efficiency	0.05 TFLOPS/W	—