Huawei Ascend 910A vs Huawei Ascend 950PR

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

OVERVIEW

	Huawei Ascend 910A	Huawei Ascend 950PR
FP32 TFLOPS	**16.0**	**—**
Memory	**32 GB**	**128 GB**
Memory Bandwidth	**1.2 TB/s**	**1.6 TB/s**
TDP	**310 W**	**900 W**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 910A peak TFLOPS (dense)	Huawei Ascend 950PR peak TFLOPS (dense)
FP64	—	—
FP32	16.0	—
TF32	—	—
BF16	—	500.0
FP16	256.0	500.0
FP8	—	1000.0
FP6	—	—
FP4	—	2000.0
INT8	512.0	—

SPECIFICATIONS

	Huawei Ascend 910A	Huawei Ascend 950PR
Architecture	Da Vinci	Da Vinci v3
Process Node	TSMC 7nm	—
Launch Year	2019	2026
Form Factor	OAM	OAM
Memory Type	HBM2	HiBL 1.0
Interface Width	—	—
Interconnect	HCCS	Unified Bus 2.0

	Huawei Ascend 910A	Huawei Ascend 950PR
TDP	310 W	900 W
FP32 Efficiency	0.05 TFLOPS/W	–