Huawei Ascend 910B vs NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition

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

OVERVIEW

	Huawei Ascend 910B	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
FP32 TFLOPS	—	**109.7**
Memory	**64 GB**	**96 GB**
Memory Bandwidth	**1.6 TB/s**	**1.8 TB/s**
TDP	**400 W**	**300 W**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 910B peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition peak TFLOPS (dense)
FP64	—	1.7
FP32	—	109.7
TF32	—	219.5
BF16	400.0	438.9
FP16	400.0	438.9
FP8	—	877.9
FP6	—	—
FP4	—	1755.7
INT8	800.0	877.9

SPECIFICATIONS

	Huawei Ascend 910B	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Architecture	Da Vinci v2	Blackwell
Process Node	SMIC 7nm	4nm
Launch Year	2024	2025
Form Factor	OAM	PCIe
Memory Type	HBM2e	GDDR7

	Huawei Ascend 910B	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Interface Width	—	512-bit
Interconnect	HCCS	—
TDP	400 W	300 W
FP32 Efficiency	—	0.37 TFLOPS/W