Huawei Ascend 950PR vs NVIDIA RTX PRO 6000 Blackwell Server Edition

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

OVERVIEW

	Huawei Ascend 950PR	NVIDIA RTX PRO 6000 Blackwell Server Edition
FP32 TFLOPS	—	**120.0**
Memory	**128 GB**	**96 GB**
Memory Bandwidth	**1.6 TB/s**	**1.6 TB/s**
TDP	**900 W**	**600 W**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 950PR peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Server Edition peak TFLOPS (dense)
FP64	—	—
FP32	—	120.0
TF32	—	234.0
BF16	500.0	500.0
FP16	500.0	500.0
FP8	1000.0	1000.0
FP6	—	—
FP4	2000.0	2000.0
INT8	—	—

SPECIFICATIONS

	Huawei Ascend 950PR	NVIDIA RTX PRO 6000 Blackwell Server Edition
Architecture	Da Vinci v3	Blackwell
Process Node	—	4nm
Launch Year	2026	2025
Form Factor	OAM	PCIe
Memory Type	HiBL 1.0	GDDR7

	Huawei Ascend 950PR	NVIDIA RTX PRO 6000 Blackwell Server Edition
Interface Width	—	512-bit
Interconnect	Unified Bus 2.0	—
TDP	900 W	600 W
FP32 Efficiency	—	0.20 TFLOPS/W