NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition vs Qualcomm Cloud AI 100 Ultra

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

OVERVIEW

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	Qualcomm Cloud AI 100 Ultra
FP32 TFLOPS	**109.7**	**—**
Memory	**96 GB**	**128 GB**
Memory Bandwidth	**1.8 TB/s**	**548 GB/s**
TDP	**300 W**	**150 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition peak TFLOPS (dense)	Qualcomm Cloud AI 100 Ultra peak TFLOPS (dense)
FP64	1.7	—
FP32	109.7	—
TF32	219.5	—
BF16	438.9	—
FP16	438.9	—
FP8	877.9	—
FP6	—	—
FP4	1755.7	—
INT8	877.9	870.0

SPECIFICATIONS

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	Qualcomm Cloud AI 100 Ultra
Architecture	Blackwell	Cloud AI 100
Process Node	4nm	7nm
Launch Year	2025	2023

	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition	Qualcomm Cloud AI 100 Ultra
Form Factor	PCIe	PCIe
Memory Type	GDDR7	LPDDR4X
Interface Width	512-bit	—
Interconnect	—	—
TDP	300 W	150 W
FP32 Efficiency	0.37 TFLOPS/W	—