Cambricon MLU290-M5 vs NVIDIA RTX PRO 5000 Blackwell 48GB

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

OVERVIEW

	Cambricon MLU290-M5	NVIDIA RTX PRO 5000 Blackwell 48GB
FP32 TFLOPS	–	65.0
Memory	–	48 GB
Memory Bandwidth	1.2 TB/s	1.3 TB/s
TDP	350 W	300 W

PERFORMANCE BY PRECISION

Precision	Cambricon MLU290-M5 peak TFLOPS (dense)	NVIDIA RTX PRO 5000 Blackwell 48GB peak TFLOPS (dense)
FP64	–	–
FP32	–	65.0
TF32	–	–
BF16	–	–
FP16	–	–
FP8	–	–
FP6	–	–
FP4	–	1032.0
INT8	512.0	–

SPECIFICATIONS

	Cambricon MLU290-M5	NVIDIA RTX PRO 5000 Blackwell 48GB
Architecture	MLUv02	Blackwell
Process Node	–	4nm
Launch Year	2021	2025
Form Factor	OAM	PCIe
Memory Type	–	GDDR7
Interface Width	–	512-bit
Interconnect	MLU-Link	–

	Cambricon MLU290-M5	NVIDIA RTX PRO 5000 Blackwell 48GB
TDP	350 W	300 W
FP32 Efficiency	–	0.22 TFLOPS/W