



NVIDIA RTX PRO 5000 Blackwell 48GB

Blackwell

PCIe

2025

4nm

OVERVIEW

65.0 FP32 TFLOPS	48 GB VRAM GDDR7	1.3 TB/s Memory Bandwidth	300 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	—	N/A	—	Standard
FP32	65.0	N/A	32	Standard
TF32	—	not published	—	Standard
BF16	—	not published	—	Standard
FP16	—	not published	—	Standard
FP8	—	not published	—	Standard
FP6	—	not published	—	Standard
FP4	1032.0	2064.0	4	Standard
INT8	—	not published	—	Standard

MEMORY SPECIFICATIONS

Capacity	48 GB
Type	GDDR7
Bandwidth	1.3 TB/s
Interface Width	512-bit

POWER & EFFICIENCY

TDP	300 W
Max Power	300 W
FP32 Efficiency	0.22 TFLOPS/W
FP16 Efficiency	—

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Blackwell	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2025	Variant: 48GB

COMPUTE ENGINE

CUDA Cores: 14,080	SMs: 110
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INTERCONNECT

PCIe: 5.0 x16

MIG: Up to 2x 24GB, Up to 1x 48GB Sparsity: Yes

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