



NVIDIA RTX PRO 6000 Blackwell Server Edition

Blackwell

PCIe

2025

4nm

OVERVIEW

120.0 FP32 TFLOPS	96 GB VRAM GDDR7	1.6 TB/s Memory Bandwidth	600 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	—	N/A	—	Standard
FP32	120.0	N/A	32	Standard
TF32	234.0	not published	32	Standard
BF16	—	1000.0	16	Standard
FP16	—	1000.0	16	Standard
FP8	—	2000.0	8	Standard
FP6	—	not published	—	Standard
FP4	—	4000.0	4	Standard
INT8	—	not published	—	Standard

MEMORY SPECIFICATIONS

Capacity	96 GB
Type	GDDR7
Bandwidth	1.6 TB/s
Interface Width	512-bit

POWER & EFFICIENCY

TDP	600 W
Max Power	600 W
FP32 Efficiency	0.20 TFLOPS/W
FP16 Efficiency	—

HARDWARE DETAILS

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

COMPUTE ENGINE

CUDA Cores: 24,064	Tensor Cores: 752 (5th Gen)	SMs: 188
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INTERCONNECT

PCIe: 5.0 x16

ENTERPRISE FEATURES

ECC: Yes	MIG: Up to 4 MIGs @ 24GB	Sparsity: Yes
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