



NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition

Blackwell

PCIe

2025

4nm

OVERVIEW

109.7 FP32 TFLOPS	96 GB VRAM GDDR7	1.8 TB/s Memory Bandwidth	300 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	1.7	N/A	64	Standard
FP32	109.7	N/A	32	Standard
TF32	219.5	438.9	32	Standard
BF16	438.9	877.9	16	Standard
FP16	438.9	877.9	16	Standard
FP8	877.9	1755.7	8	Standard
FP6	—	not published	—	Standard
FP4	1755.7	3511.4	4	Standard
INT8	877.9	1755.7	8	Standard

MEMORY SPECIFICATIONS

Capacity	96 GB
Type	GDDR7
Bandwidth	1.8 TB/s
Interface Width	512-bit

POWER & EFFICIENCY

TDP	300 W
Max Power	300 W
FP32 Efficiency	0.37 TFLOPS/W
FP16 Efficiency	1.46 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Blackwell	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2025	Variant: Max-Q Workstation Edition

COMPUTE ENGINE

CUDA Cores: 24,064	Tensor Cores: 752 (5th Gen)	SMs: 188
Boost Clock: 2.28 GHz		

INTERCONNECT

PCIe: 5.0 x16

CHIP DESIGN

Transistors: 92.2 billion Die Size: 750 mm²

ENTERPRISE FEATURES

ECC: Yes MIG: Up to 4x 24GB, Up to 2x 48GB, Sparsity: Yes
Up to 1x 96GB