

NVIDIA RTX PRO 5500 Blackwell Workstation Edition

Blackwell

PCIe

2026

4nm

OVERVIEW

— FP32 TFLOPS	84 GB Memory GDDR7	1.4 TB/s Memory Bandwidth	600 W TDP
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PERFORMANCE METRICS

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

MEMORY SPECIFICATIONS

Capacity	84 GB
Type	GDDR7
Bandwidth	1.4 TB/s
Interface Width	416-bit

POWER & EFFICIENCY

TDP	600 W
Max power	600 W
FP32 dense TFLOPS per W of TDP	—
FP16 dense TFLOPS per W of TDP	—

Per W of TDP figures divide dense peak by accelerator TDP.
Board power only: excludes host CPUs, networking, cooling and facility overhead.

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Blackwell	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2026	Variant: Workstation Edition

COMPUTE ENGINE

CUDA Cores: 21,760	SMs: 170
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INTERCONNECT

PCIe: 5.0 x16

CHIP DESIGN

Transistors: 92.2 billion Die Size: 750 mm²

ENTERPRISE FEATURES

ECC: Yes MIG: Up to 2x 42GB, Up to 1x 84GB Sparsity: Yes