

# NVIDIA GeForce RTX 5080 16GB

Blackwell PCIe 2025 4nm

## OVERVIEW

56.3

FP32 TFLOPS

16 GB

VRAM GDDR7

960 GB/s

Memory Bandwidth

360 W

TDP

## PERFORMANCE METRICS

Precision	Peak TFLOPS	Bits	Type
INT8	450.2	8	Standard
FP8	450.2	8	Standard
FP4	900.5	4	Standard
FP16	225.1	16	Standard
BF16	225.1	16	Standard
TF32	112.6	32	Standard
FP32	56.3	32	Standard
FP64	0.9	64	Standard

## MEMORY SPECIFICATIONS

Capacity	16 GB
Type	GDDR7
Bandwidth	960 GB/s
Interface Width	256-bit

## POWER & EFFICIENCY

TDP	360 W
Est. Max Power	414 W
FP32 Efficiency	0.16 TFLOPS/W
FP16 Efficiency	0.63 TFLOPS/W

## HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Blackwell	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2025	Variant: 16GB

## COMPUTE ENGINE

CUDA Cores: 10,752	Tensor Cores: 336 (5th Gen)	SMs: 84
Base Clock: 2.29 GHz	Boost Clock: 2.62 GHz	

## CHIP DESIGN

Transistors: 45.6 billion	Die Size: 378 mm <sup>2</sup>
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