



NVIDIA GeForce RTX 5050 8GB

Blackwell

PCIe

2025

4nm

OVERVIEW

13.2 FP32 TFLOPS	8 GB VRAM GDDR6	320 GB/s Memory Bandwidth	130 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	0.2	N/A	64	Standard
FP32	13.2	N/A	32	Standard
TF32	13.2	not published	32	Standard
BF16	26.3	not published	16	Standard
FP16	52.6	not published	16	Standard
FP8	105.3	not published	8	Standard
FP6	—	not published	—	Standard
FP4	210.5	421.0	4	Standard
INT8	105.3	not published	8	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB
Type	GDDR6
Bandwidth	320 GB/s
Interface Width	128-bit

POWER & EFFICIENCY

TDP	130 W
Max Power	130 W
FP32 Efficiency	0.10 TFLOPS/W
FP16 Efficiency	0.40 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Blackwell	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2025	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 2,560	Tensor Cores: 80 (5th Gen)	SMs: 20
Base Clock: 2.31 GHz	Boost Clock: 2.57 GHz	

INTERCONNECT

PCIe: 5.0

ENTERPRISE FEATURES

Sparsity: **Yes**
