



NVIDIA GeForce RTX 3050 8GB

Ampere PCIe 2022 8nm

OVERVIEW

9.1 FP32 TFLOPS	8 GB VRAM GDDR6	— Memory Bandwidth	130 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	0.1	N/A	64	Standard
FP32	9.1	N/A	32	Standard
TF32	9.1	18.2	32	Standard
BF16	18.2	36.4	16	Standard
FP16	18.2	36.4	16	Standard
FP8	—	not published	—	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	72.8	145.6	8	Standard
INT4	145.6	291.1	4	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB	TDP	130 W
Type	GDDR6	Max Power	130 W
Bandwidth	—	FP32 Efficiency	0.07 TFLOPS/W
Interface Width	128-bit	FP16 Efficiency	0.14 TFLOPS/W

POWER & EFFICIENCY

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: 8nm
Form Factor: PCIe	Launch Year: 2022	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 2,560	Tensor Cores: 80 (3rd Gen)	SMs: 20
Base Clock: 1.55 GHz	Boost Clock: 1.78 GHz	

INTERCONNECT

PCIe: 4.0 x16

ENTERPRISE FEATURES

ECC: No

Sparsity: Yes