



NVIDIA GeForce RTX 4090 D 24GB

Ada Lovelace PCIe 2023 4nm

OVERVIEW

73.5 FP32 TFLOPS	24 GB VRAM GDDR6X	— Memory Bandwidth	425 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	1.1	N/A	64	Standard
FP32	73.5	N/A	32	Standard
TF32	73.5	not published	32	Standard
BF16	147.1	not published	16	Standard
FP16	147.1	not published	16	Standard
FP8	294.2	not published	8	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	588.4	not published	8	Standard

MEMORY SPECIFICATIONS

Capacity	24 GB
Type	GDDR6X
Bandwidth	—
Interface Width	384-bit

POWER & EFFICIENCY

TDP	425 W
Max Power	425 W
FP32 Efficiency	0.17 TFLOPS/W
FP16 Efficiency	0.35 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ada Lovelace	Process Node: 4nm
Form Factor: PCIe	Launch Year: 2023	Variant: 24GB

COMPUTE ENGINE

CUDA Cores: 14,592	Tensor Cores: 456 (4th Gen)	SMs: 114
Base Clock: 2.28 GHz	Boost Clock: 2.52 GHz	

INTERCONNECT

PCIe: 4.0

CHIP DESIGN

Transistors: 76.3 billion Die Size: 609 mm²

ENTERPRISE FEATURES

Sparsity: Yes