



NVIDIA GeForce RTX 2070 Super 8GB

Turing

PCIe

2019

12nm

OVERVIEW

9.1 FP32 TFLOPS	8 GB VRAM GDDR6	448 GB/s Memory Bandwidth	215 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	0.3	64	Standard
FP32	9.1	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	36.3	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	145.0	8	Standard
INT4	290.0	4	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB	TDP	215 W
Type	GDDR6	Max Power	215 W
Bandwidth	448 GB/s	FP32 Efficiency	0.04 TFLOPS/W
Interface Width	256-bit	FP16 Efficiency	0.17 TFLOPS/W

POWER & EFFICIENCY

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Turing	Process Node: 12nm
Form Factor: PCIe	Launch Year: 2019	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 2,560	Tensor Cores: 320 (Turing)	SMs: 40
Base Clock: 1.60 GHz	Boost Clock: 1.77 GHz	

INTERCONNECT

GPU-to-GPU: NVLink	Bandwidth: 50 GB/s	Links: 1
PCIe: 3.0 x16		

CHIP DESIGN

Transistors: 13.6 billion	Die Size: 545 mm ²
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ENTERPRISE FEATURES

ECC: No	Sparsity: No
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