



NVIDIA GeForce RTX 2070 8GB

Turing PCIe 2018 12nm

OVERVIEW

7.9 FP32 TFLOPS	8 GB VRAM GDDR6	448 GB/s Memory Bandwidth	185 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	0.2	64	Standard
FP32	7.9	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	31.5	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	126.0	8	Standard
INT4	252.1	4	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB
Type	GDDR6
Bandwidth	448 GB/s
Interface Width	256-bit

POWER & EFFICIENCY

TDP	185 W
Max Power	185 W
FP32 Efficiency	0.04 TFLOPS/W
FP16 Efficiency	0.17 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Turing	Process Node: 12nm
Form Factor: PCIe	Launch Year: 2018	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 2,304	Tensor Cores: 288 (Turing)	SMs: 36
Base Clock: 1.41 GHz	Boost Clock: 1.71 GHz	

INTERCONNECT

PCIe: 3.0 x16

CHIP DESIGN

Transistors: 10.8 billion Die Size: 445 mm²

ENTERPRISE FEATURES

ECC: No Sparsity: No