

NVIDIA GeForce RTX 3070 8GB

Ampere PCIe 2020 8nm

OVERVIEW

20.3

FP32 TFLOPS

8 GB

VRAM GDDR6

448 GB/s

Memory Bandwidth

220 W

TDP

PERFORMANCE METRICS

Precision	Peak TFLOPS	Bits	Type
INT8	40.6	8	Standard
FP16	20.3	16	Standard
BF16	20.3	16	Standard
TF32	20.3	32	Standard
FP32	20.3	32	Standard
FP64	0.3	64	Standard

MEMORY SPECIFICATIONS

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

POWER & EFFICIENCY

TDP	220 W
Est. Max Power	253 W
FP32 Efficiency	0.09 TFLOPS/W
FP16 Efficiency	0.09 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: 8nm
Form Factor: PCIe	Launch Year: 2020	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 5,888	Tensor Cores: 184 (3rd Gen)	SMs: 46
Base Clock: 1.50 GHz	Boost Clock: 1.73 GHz	

CHIP DESIGN

Transistors: 17.4 billion	Die Size: 393 mm ²
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