



NVIDIA GeForce RTX 2080 Ti 11GB

Turing

PCIe

2018

12nm

OVERVIEW

14.2 FP32 TFLOPS	11 GB VRAM GDDR6	616 GB/s Memory Bandwidth	260 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	0.4	64	Standard
FP32	14.2	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	56.9	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	227.7	8	Standard
INT4	455.4	4	Standard

MEMORY SPECIFICATIONS

Capacity	11 GB	TDP	260 W
Type	GDDR6	Max Power	260 W
Bandwidth	616 GB/s	FP32 Efficiency	0.05 TFLOPS/W
Interface Width	352-bit	FP16 Efficiency	0.22 TFLOPS/W

POWER & EFFICIENCY

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Turing	Process Node: 12nm
Form Factor: PCIe	Launch Year: 2018	Variant: 11GB

COMPUTE ENGINE

CUDA Cores: 4,352	Tensor Cores: 544 (Turing)	SMs: 68
Base Clock: 1.35 GHz	Boost Clock: 1.64 GHz	

INTERCONNECT

GPU-to-GPU: NVLink	Bandwidth: 100 GB/s	Links: 2
PCIe: 3.0 x16		

CHIP DESIGN

Transistors: 18.6 billion	Die Size: 754 mm ²
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ENTERPRISE FEATURES

ECC: No	Sparsity: No
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