# NVIDIA GeForce RTX 3080 10GB

Ampere | PCIe | 2020 | 8nm

## OVERVIEW

| 29.8 | 10 GB | 760 GB/s | 320 W |
|---|---|---|---|
| FP32 TFLOPS | VRAM GDDR6X | Memory Bandwidth | TDP |

## PERFORMANCE METRICS

| Precision | Peak TFLOPS | Bits | Type |
|---|---|---|---|
| INT8 | 59.5 | 8 | Standard |
| FP16 | 29.8 | 16 | Standard |
| BF16 | 29.8 | 16 | Standard |
| TF32 | 29.8 | 32 | Standard |
| FP32 | 29.8 | 32 | Standard |
| FP64 | 0.5 | 64 | Standard |

## MEMORY SPECIFICATIONS

| | |
|---|---|
| Capacity | 10 GB |
| Type | GDDR6X |
| Bandwidth | 760 GB/s |
| Interface Width | 320-bit |

## POWER & EFFICIENCY

| | |
|---|---|
| TDP | 320 W |
| Est. Max Power | 368 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: 10GB

## COMPUTE ENGINE

CUDA Cores: 8,704
Tensor Cores: 272 (3rd Gen)
SMs: 68
Base Clock: 1.44 GHz
Boost Clock: 1.71 GHz

## CHIP DESIGN

Transistors: 28.3 billion
Die Size: 628 mm²