



NVIDIA GeForce RTX 3060 12GB

Ampere PCIe 2021 8nm

OVERVIEW

12.7 FP32 TFLOPS	12 GB VRAM GDDR6	— Memory Bandwidth	170 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	0.2	N/A	64	Standard
FP32	12.7	N/A	32	Standard
TF32	12.7	25.5	32	Standard
BF16	25.5	51.0	16	Standard
FP16	25.5	51.0	16	Standard
FP8	—	not published	—	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	101.9	203.8	8	Standard
INT4	203.8	407.6	4	Standard

MEMORY SPECIFICATIONS

Capacity	12 GB
Type	GDDR6
Bandwidth	—
Interface Width	192-bit

POWER & EFFICIENCY

TDP	170 W
Max Power	170 W
FP32 Efficiency	0.07 TFLOPS/W
FP16 Efficiency	0.15 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: 8nm
Form Factor: PCIe	Launch Year: 2021	Variant: 12GB

COMPUTE ENGINE

CUDA Cores: 3,584	Tensor Cores: 112 (3rd Gen)	SMs: 28
Base Clock: 1.32 GHz	Boost Clock: 1.78 GHz	

INTERCONNECT

PCIe: 4.0 x16

ENTERPRISE FEATURES

ECC: No

Sparsity: Yes