

NVIDIA RTX™ A1000 GPU Technical Specifications

PRODUCT SPECIFICATIONS

Architecture	NVIDIA Ampere Architecture
Foundry	Samsung
Process Size	8N NVIDIA Custom Process
Transistors	8.7 billion
Die Size	200 mm ²
CUDA Parallel Processing cores	2304
NVIDIA Tensor Cores	72
NVIDIA RT Cores	18
Single-Precision Performance ¹	6.74 TFLOPS
RT Core Performance ¹	13.2 TFLOPS
Tensor Performance ¹	53.8 TFLOPS ²
GPU Memory	8 GB GDDR6
Memory Interface	128-bit
Memory Bandwidth	192 GB/s
Max Power Consumption	50W
Graphics Bus	PCI Express 4.0 x8 ³
Display Connectors	mDP 1.4a (4)
Form Factor	2.7" (H) x 6.4" (L) Single Slot
Product Weight	140 g (Low Profile Bracket) 146 g (ATX Bracket)
Thermal Solution	Active Fan
NVENC NVDEC	1x 2x (+AV1 decode)

¹ Peak rates are based on GPU boost clock.

² Effective FP16 TFLOPS using the sparsity feature.

³ RTX A1000 utilizes a full length PCIe Gen 4 x8 interface.