

NVIDIA A100 PCIe 40GB

Ampere PCIe 2020 7nm

OVERVIEW

19.5
FP32 TFLOPS

40 GB
VRAM

1.6 TB/s
Memory Bandwidth

250 W
TDP

PERFORMANCE METRICS

Precision	Peak TFLOPS	Bits	Type
INT8	624.0	8	Standard
INT4	1248.0	4	Standard
FP16	312.0	16	Standard
BF16	312.0	16	Standard
TF32	156.0	32	Standard
FP32	19.5	32	Standard
FP64	9.7	64	Standard

MEMORY SPECIFICATIONS

Capacity	40 GB
Type	—
Bandwidth	1.6 TB/s
Interface Width	—

POWER & EFFICIENCY

TDP	250 W
Est. Max Power	288 W
FP32 Efficiency	0.08 TFLOPS/W
FP16 Efficiency	1.25 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: 7nm
Form Factor: PCIe	Launch Year: 2020	Variant: PCIe 40GB