

# NVIDIA A100 SXM4 40GB

Ampere SXM 2020 7nm

## OVERVIEW

**19.5**  
FP32 TFLOPS

**40 GB**  
VRAM HBM2e

**1.6 TB/s**  
Memory Bandwidth

**400 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	HBM2e
Bandwidth	1.6 TB/s
Interface Width	4096-bit

## POWER & EFFICIENCY

TDP	400 W
Est. Max Power	460 W
FP32 Efficiency	0.05 TFLOPS/W
FP16 Efficiency	0.78 TFLOPS/W

## HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: 7nm
Form Factor: SXM	Launch Year: 2020	Variant: SXM4 40GB