



NVIDIA Jetson AGX Orin 64GB

Ampere Module 2021

OVERVIEW

5.3 FP32 TFLOPS	64 GB VRAM LPDDR5	205 GB/s Memory Bandwidth	60 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	—	N/A	—	Standard
FP32	5.3	N/A	32	Standard
TF32	—	not published	—	Standard
BF16	—	not published	—	Standard
FP16	43.0	85.0	16	Standard
FP8	—	not published	—	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	85.0	170.0	8	Standard

MEMORY SPECIFICATIONS

Capacity	64 GB
Type	LPDDR5
Bandwidth	205 GB/s
Interface Width	256-bit

POWER & EFFICIENCY

TDP	60 W
Max Power	60 W
FP32 Efficiency	0.09 TFLOPS/W
FP16 Efficiency	0.72 TFLOPS/W

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: —
Form Factor: Module	Launch Year: 2021	Variant: 64GB

COMPUTE ENGINE

CUDA Cores: 2,048	Tensor Cores: 64 (3rd Gen)	SMs: 16
Boost Clock: 1.30 GHz		

ENTERPRISE FEATURES

Sparsity: Yes
