

NVIDIA Jetson Orin NX 8GB

Ampere

Module

2022

OVERVIEW

2.4 FP32 TFLOPS	8 GB Memory LPDDR5	102 GB/s Memory Bandwidth	40 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	—	N/A	—	Standard
FP32	2.4	N/A	32	Standard
TF32	—	not published	—	Standard
BF16	—	not published	—	Standard
FP16	—	not published	16	Standard
FP8	—	not published	—	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	38.5	77.0	8	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB
Type	LPDDR5
Bandwidth	102 GB/s
Interface Width	128-bit

POWER & EFFICIENCY

TDP	40 W
Max power	40 W
FP32 dense TFLOPS per W of TDP	0.06 TFLOPS/W
FP16 dense TFLOPS per W of TDP	—

Per W of TDP figures divide dense peak by accelerator TDP.
Board power only: excludes host CPUs, networking, cooling and facility overhead.

HARDWARE DETAILS

Vendor: NVIDIA	Architecture: Ampere	Process Node: —
Form Factor: Module	Launch Year: 2022	Variant: 8GB

COMPUTE ENGINE

CUDA Cores: 1,024	Tensor Cores: 32 (3rd Gen)	SMs: 8
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Boost Clock: 1.17 GHz

INTERCONNECT

PCIe: 4.0

ENTERPRISE FEATURES

Sparsity: Yes

