

Nvidia Jetson Orin Nano Developer Kit



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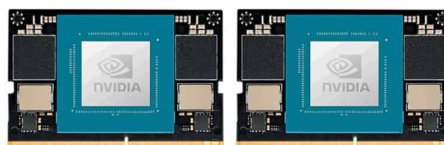
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Highlights

The Jetson Orin Nano 8GB module, equipped with a heat sink and reference carrier board, sets a new benchmark for building entry-level AI-powered robots, intelligent cameras and smart drones.

It streamlines the process of getting started with Jetson Orin Nano series modules. Its compact design, abundance of connectors, and AI performance of up to 40 TOPS, make it an ideal developer kit to transform your AI ideas into reality.

It is capable of running all the latest AI models, including transformer and advanced robotics models, with up to 80 times the performance of Jetson Nano.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.

- Powered by 1024 NVIDIA CUDA with 32 Tensor cores
- 6-core Arm Cortex-A78AE v8.2 - 64-bit CPU
- 8GB 128-bit LPDDR5 68 GB/s
- Supports NVMe SSD



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Specifications

Model Type

Developer Kit

Form Factor

Compact

Construction

Carrier board

Cooling

Heat sink with active FAN

Environment

The developer kit is exclusively designed for testing environments in startups

Certification

CE

Processor

CPU: 6-core Arm Cortex-A78AE v8.2 64-bit
GPU: NVIDIA Ampere architecture with 1024 NVIDIA CUDA cores with 32 Tensor cores

RAM

8GB 128-bit LPDDR5 - 68GB/s

Storage

1 x MicroSD card slot



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1 x M.2 M key type for NVMe

Input / Output

4 x USB Type A

2 x MIPI CSI-2 22-pin camera connectors

1 x USB 3.2 Gen2 Type-C connector for UFP

1 x 1GbE via RJ45

1 x DP 1.2 (+MST)

12-pin button header

4-pin fan header

DC power jack

Expansion

M.2 M key type slot with 4 x PCIe Gen3

M.2 M key type slot with 2 x PCIe Gen3

M.2 E key type slot

40-pin expansion header (UART, SPI, I2S, I2C, GPIO)

Operating System

Please refer to the software features section of the latest NVIDIA Jetson Linux developer guide for a list of supported features.

Power Supply

AC to DC power supply

Power Consumption

7W-15W

Dimension and Weight

Dimension

H 21 x W 100 x D 79mm

Weight

TBD



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Accessories Included

DC power supply

802.11ac/abgn wireless network interface controller

Warranty and After Sales Support

Standard 1 year



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