



# NVIDIA JETSON NANO DEVELOPER KIT

## THE LOW-COST AI COMPUTER FOR ALL

## Join the Revolution and Bring the Power of AI to Millions of Devices

The NVIDIA® Jetson Nano™ Developer Kit delivers the compute performance to run modern AI workloads at unprecedented size, power, and cost. Developers, learners, and makers can now run AI frameworks and models for applications like image classification, object detection, segmentation, and speech processing.

The developer kit can be powered by micro-USB and comes with extensive I/Os, ranging from GPIO to CSI. This makes it simple for developers to connect a diverse set of new sensors to enable a variety of AI applications. It's incredibly power-efficient, consuming as little as 5 watts.

Jetson Nano is also supported by NVIDIA JetPack, which includes a board support package (BSP), Linux OS, NVIDIA CUDA®, cuDNN, and TensorRT™ software libraries for deep learning, computer vision, GPU computing, multimedia processing, and much more. The software is even available using an easy-to-flash SD card image, making it fast and easy to get started.

The same JetPack SDK is used across the entire NVIDIA Jetson™ family of products and is fully compatible with NVIDIA's world-leading AI platform for training and deploying AI software. This proven software stack reduces complexity and overall effort for developers.

### KEY FEATURES

#### Jetson Nano Module

- > 128-core NVIDIA Maxwell™ GPU
- > Quad-core ARM® A57 CPU
- > 4 GB 64-bit LPDDR4
- > 10/100/1000BASE-T Ethernet

#### Power Options

- > Micro-USB 5V 2A
- > DC power adapter 5V 4A

#### I/O

- > USB 3.0 Type A
- > USB 2.0 Micro-B

- > HDMI/DisplayPort
- > M.2 Key E
- > Gigabit Ethernet
- > GPIOs, I<sup>2</sup>C, I<sup>2</sup>S, SPI, UART
- > MIPI-CSI camera connector
- > Fan connector
- > PoE connector

#### Kit Contents

- > NVIDIA Jetson Nano module and carrier board
- > Quick Start Guide and Support Guide



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## TECHNICAL SPECIFICATIONS

### DEVELOPER KIT

GPU	128-core Maxwell
CPU	Quad-core ARM A57 @ 1.43 GHz
Memory	4 GB 64-bit LPDDR4 25.6 GB/s
Storage	microSD (not included)
Video Encoder	4K @ 30   4x 1080p @ 30   9x 720p @ 30 (H.264/H.265)
Video Decoder	4K @ 60   2x 4K @ 30   8x 1080p @ 30   18x 720p @ 30   (H.264/H.265)
Camera	1x MIPI CSI-2 DPHY lanes
Connectivity	Gigabit Ethernet, M.2 Key E
Display	HDMI 2.0 and eDP 1.4
USB	4x USB 3.0, USB 2.0 Micro-B
Others	GPIO, I <sup>2</sup> C, I <sup>2</sup> S, SPI, UART
Mechanical	100 mm x 80 mm x 29 mm

\*Please refer to NVIDIA documentation for what is currently supported.

Learn more at [www.nvidia.com/JetsonNano](http://www.nvidia.com/JetsonNano).

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