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NVIDIA OKdo Nano Developer Kit

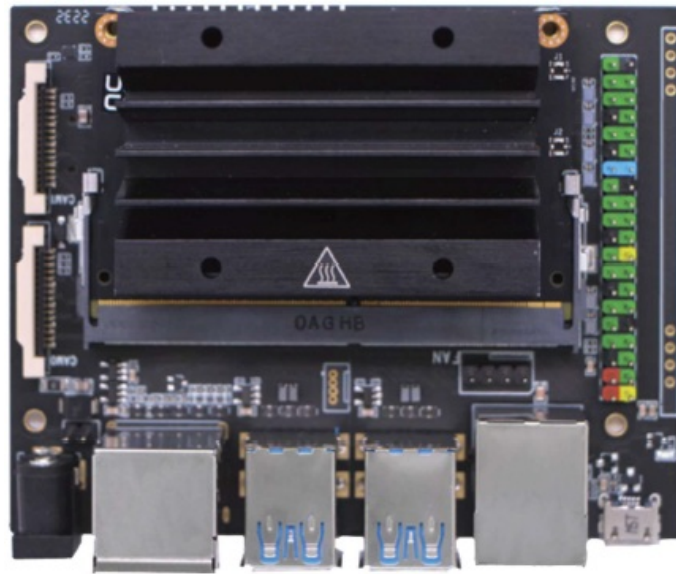


Introduction

Join the Revolution and Bring the Power of A1 to Millions of Devices

- The Radxa Nano CIOO Developer Kit delivers the compute performance to run modern A1 workloads at unprecedented size, power, and cost. Developers, learners, and makers can now run A1 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 A1 applications. It's incredibly power-efficient, consuming as little as 5 watts.
- Nano CIOO 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 A1 platform for training and deploying A1 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
- 10/100/1 OOOBASE-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, I2C, PS, SPI, UART
- 2x M IPI-CSI camera connector

- Micro SD card
- Fan connector



Kit Contents

- NVIDIA Jetson Nano module and Radxa Nano CL 00 carrier board
- Quick Start Guide and Support Guide

TECHNICAL SPECIFICATIONS

OKdo Nano Developer Kit


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:** 16GB eMMC and microSD (not included)
- **Video Encoder:** 4K @ 30 1 4x 1080p @ 30 1 9x 720p @ 30 (H.264/H.265)
- **Video Decoder:** 4K @ 60 1 2x 4K @ 30 1 8x 1080p @ 30 1 18x 720p @ 30 1 (H.264/H.265)
- **Camera:** 2x 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, IC², IS² SPI, UART
- **Mechanical:** 100 mm x 80 mm x 29 mm



Please refer to NVIDIA documentation for what is currently supported.

Documents / Resources

	NVIDIA OKdo Nano Developer Kit [pdf] Owner's Manual A700000013862956, OKdo Nano Developer Kit, OKdo, Nano Developer Kit, Developer Kit, Kit
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References

- [User Manual](#)

 A700000013862956, Developer Kit, Kit, Nano Developer Kit, Nvidia, okdo, OKdo Nano Developer
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