A603 Carrier Board for NVIDIA Jetson Orin NX / Nano (Support WiFi, Bluetooth, SSD)

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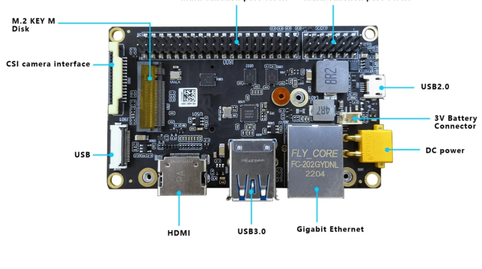
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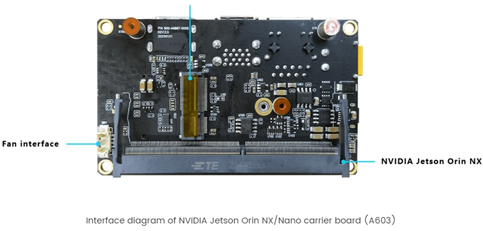
Introduction

This is a carrier board compatible with the NVIDIA Jetson Orin NX/Nano core module. It is equipped with a Gigabit Ethernet (10/100/1000) port, enabling fast data transfer. It features two USB 3.0 Type-A ports, one USB 3.0 0.5mm pitch 20P ZIF, and one USB 2.0 micro AB port, providing versatile connectivity options.

This carrier board supports the NVIDIA Jetson Orin NX/Nano and offers a rich array of peripheral interfaces. With a 15-pin CSI camera connector and HDMI port, users can capture and display high-quality video content. Storage and wireless connectivity can be expanded through the onboard M.2 Key M and M.2 Key E interfaces. It also includes a fan interface (5V PWM) and an RTC connector.

It supports a wide voltage input range of 9-20V DC and can operate in temperatures ranging from -25ºC to 65ºC. With its compact size of 87x52x26mm, it can be seamlessly integrated into various applications, providing flexibility and ease of use.





Interface diagram of NVIDIA Jetson Orin NX/Nano carrier board (A603)

Applications

- Home robots
- UAVs
- Unmanned boats
- Robotics and drones
- Industrial automation and control systems
- Digital signage and media players
- IoT (Internet of Things) and embedded systems
- Education and prototyping projects

Specification

- Compatibility: Jetson Orin NX/Nano
- Power Requirements: +9V to +19V DC Input@3A
- Network: Gigabit Ethernet Connector (10/100/1000)
- Video Output: HDMI
- USB
  - USB 3.0 Type A (integrated USB 2.0)
  - USB 3.0 0.5mm pitch 20P ZIF
  - USB 2.0 15 Pin
  - USB 2.0 Micro-AB
- M.2 KEY E PCIE: PCIE 2230 SIZE
- M.2 KEY M: M.2 KEY M (NVMe SIZE 2242 SSD)
- Serial: CAN
- Camera: CSI CAMERA
- I2S: I2S (3.3V Level)
- Misc
  - I2C Link(+3.3V I/O×2
  - GPIO ×6
  - UART ×1
  - SPI ×2
- Dimension: 87mm*52mm*26mm
- Weight: 100g

Documents

- A603 Carrier Board User Guide

Shipping List

- Jetson Orin NX/Nano Carrier Board (A603) × 1
- Power Adapter 90W 19V (Power cable not included) × 1

AI Projects

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