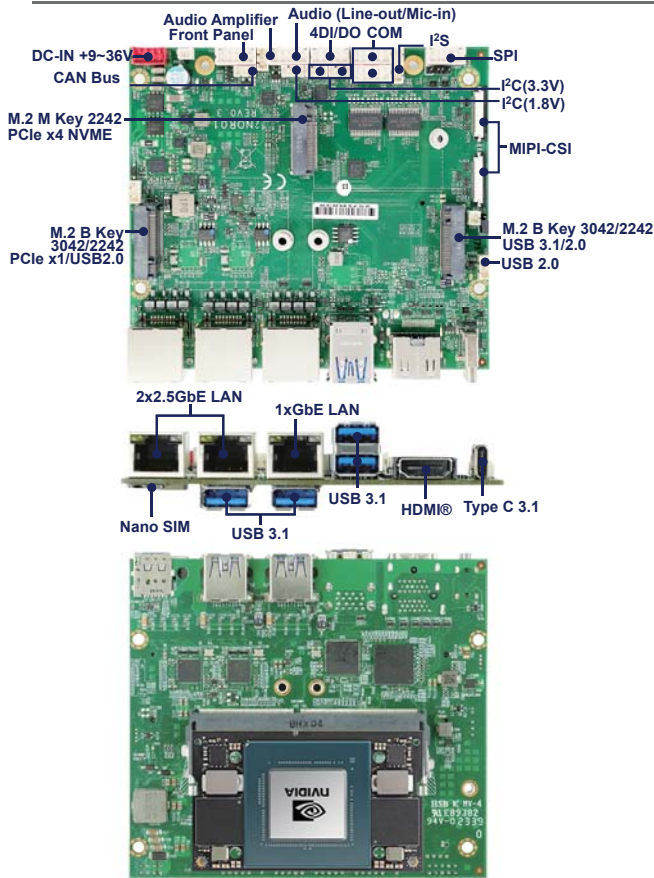


# 2NOR01

Carrier Board for NVIDIA®  
Jetson Orin™ Nano (Super) / NX SoM



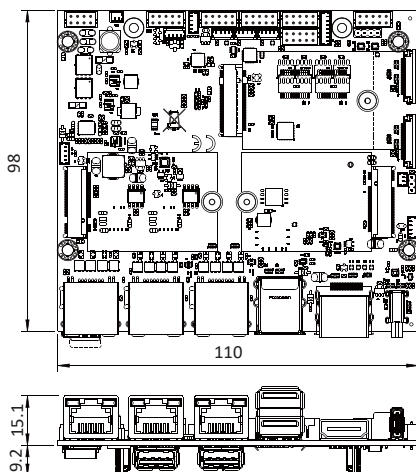
## Features:

### CPU Board:

- NVIDIA Jetson Nano (Super): 4 / 8GB LPDDR5, 20 / 40 TOPs
  - NVIDIA Jetson NX: 8 / 16GB LPDDR5, 70 / 100 TOPs
  - AI Accelerator: NVIDIA® Jetson Orin™ Nano (Super) / Orin™ NX
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- 1 x HDMI® 2 x 2.5GbE, 1 x GbE
  - 4 x USB 3.1, 1 x Type C USB 3.1 / 2.0 (OTG), 1 x USB 2.0
  - Mic-in / Line-out ; AMP 2W
  - 2 x RS232 (Option RS422), 1 x CANBus
  - 1 x M.2 M key 2 x M.2 B key, 1 x SIM, 4DI / 4DO
  - SPI, I2S, I2C, USB 2.0, 2 x MIPI-CSI



## Dimensions: (Unit:mm)



## Specifications :

- CPU
  - 8-core Arm® Cortex®-A78AE 2.0 GHz
  - 6-core Arm® Cortex®-A78AE 1.5 GHz
- GPU
  - 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
  - 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
- AI Accelerator
  - NVIDIA Jetson Orin NX: 70 / 100 TOPs
  - NVIDIA Jetson Orin Nano (Super): 20 / 40 TOPs
- System Memory
  - Jetson Orin NX: LPDDR5, 8 / 16GB
  - Jetson Orin Nano (Super): LPDDR5, 4 / 8GB
- Storage
  - 1 x M.2 M key Type 2242 (PCIe x 4), NVMe
- Display
  - 1 x HDMI®
- LAN
  - 2 x Intel 2.5 GbE I226IT ; 1 x GbE
- Audio
  - Support Line-out / Mic-in
  - Two channel Class D Audio Amplifier 2W
- Expansion Interface
  - 1 x M.2 M key Type 2242 (PCIe x 4), NVMe
  - 1 x M.2 B key Type 2242 / 3042 (PCIe x 1/ USB 2.0) ; WiFi / Bluetooth or PCIe
  - 1 x M.2 B key Type 2242 / 3042 (USB 3.1 / 2.0) ; 4G / 5G, GPS or USB Device
  - 1 x SIM

### Expansion Options

NF212A	M.2 B + M Key 2242 PCIe to GbE LAN
NF212B	M.2 B + M Key 3042 PCIe to Dual GbE LAN
PW353	4 port PoE Out (RJ45)
PW354	4 port PoE Out (M12)
NF226A	M.2 B + M Key 2242 PCIe to 2.5G LAN
NF226B	M.2 B + M Key 3042 PCIe to Dual 2.5G LAN
CC007	USB to 4 x RS232 / 485 / 422

- USB
  - 4 x USB 3.1 (external) ; 1 x USB 2.0 (internal)
  - 1 x USB 3.1 / 2.0 (Type C, OTG)
- Serial IO
  - 2 x RS232 (Option RS422)
  - 1 x CANBus
- SPI, I2C
  - SPI, I2S, I2C
- Camera interface
  - 2 x MIPI-CSI
- GPIO
  - Hardware digital Input & Output, 4 x DI / 4 x DO
- Power Input
  - Wide Range +9~36V
- Dimension
  - 2.5" Plus (110 x 98 mm) ; Weight: 100g
- Operation Temperature (100% CPU Usage)
  - 25°C~70°C (100% CPU Usage, not-underclocking)
- Operation Humidity
  - 5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
  - SKY 2, ROCK
- OS Support

JetPack 6.2 Ubuntu 22.04.05