



Features

- 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
- 1024-core NVIDIA Ampere architecture GPU with 32 Tensor cores / 512-core NVIDIA Ampere architecture GPU with 16 Tensor cores
- 1x M.2 3042/3052 B-Key 4G/5G/M.2 2242 B+M-Key storage function
- 1x M.2 2230 E-Key WiFi/BT/Storage function
- 2x COM/DIO/CANBus, 4x USB, 1x GB LAN, 1x HDMI
- Wide power input range 12V to 24V DC
- Supports Ubuntu 20.04 OS

Specifications

System Board	NVIDIA® Jetson ORIN NX 8GB/ORIN Nano 4GB SOM + carrier board
Processor	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
System Memory	NVIDIA® Jetson ORIN NX: 8GB 128-bit LPDDR5 102.4GB/s NVIDIA® Jetson ORIN Nano: 4GB 64-bit LPDDR5 34 GB/s
Storage	1x M.2 2242 B+M Key NVMe or M.2 2230 E-Key NVMe
Construction	Aluminum & steel
Color	Black & Red
Display	ORIN NX: HDMI 2.1 Type A ORIN Nano: HDMI 1.4 Type A
Network	1x RJ-45 GbE port (10/100/1000)
Watchdog	N/A
Front I/O	1x Gigabit Ethernet (10/100/1000), RJ45 with LED 1x HDMI Type-A 2x USB 3.2 Gen2 Type-A 2x USB 2.0 Type-A 1x Micro USB connector supports Recovery Mode and OTG 1x Power LED 1x Recovery button
Rear I/O	1x DB9 connector for RS-232/485 and CanBus 1x DB15 connector for RS-232/422/485 and DIO x8
Side I/O	2x Antenna 1x 12-24V DC input with 2 pins terminal block
Expansion slots	1x M.2 3042/3052 B-key (4G/5G/M.2 2242 B+M Key storage) 1x M.2 2230 E-Key (WiFi/BT/Storage)
Fanless	Yes
Dimensions (WxDxH)	105mm x 90mm x 52mm
Mounting	wall mount
Operating Temperature	-15°C~55°C (-5°F~131°F)
Relative Humidity	5%~95% (non-condensing)

OS Support	Ubuntu 20.04
Certification	CE, FCC Class B

Ordering Information

EC3000-NX-8	NVIDIA® Jetson Orin NX 8GB, 1x HDMI, 1x GbE, 5x USB, M.2 B+M/E Key, 12V to 24V DC input, -15°C ~ +55°C operating temperature, with power adapter, with RTC battery
EC3000-NANO-4	NVIDIA® Jetson Orin Nano 4GB, 1x HDMI, 1x GbE, 5x USB, M.2 B+M/E Key, 12V to 24V DC input, -15°C ~ +55°C operating temperature, with power adapter, with RTC battery