



Features

- NVIDIA® Jetson Orin NX and Nano series module
- 1x GbE LAN
- 1x Micro USB supports OS flash
- 2x USB 3.2 Gen2 Type-A
- 2x USB 2.0 Type-A
- 2x COM/DIO/CANBus, 1x HDMI
- 1x M.2 3042/3052 B-key for 4G/5G/M.2 2242 B+M-key NVMe SSD
- 1x M.2 2230 E-key WiFi/BT/NVMe SSD
- Wide power input range +12V to +24V DC
- Supports Ubuntu 22.04 OS

Specifications

System Mainboard	NVIDIA® Jetson Orin NX 8GB/Orin Nano 4GB SOM + carrier board
CPU Type	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
System Speed	EC3000-NX-8: 2.0 GHz EC3000-NANO-4: 1.5 GHz
Memory	NVIDIA® Jetson Orin NX: 8GB 128-bit LPDDR5 102.4 GB/s NVIDIA® Jetson Orin Nano: 8GB 128-bit LPDDR5 102 GB/s NVIDIA® Jetson Orin Nano: 4GB 64-bit LPDDR5 51 GB/s
Front Panel External 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 Panel External I/O	1x DB9 connector for RS-232/485 and CanBus 1x DB15 connector for RS-232/422/485 and DIO x8 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 E-Key (2230) (WiFi/BT/Storage)
Storage	1x M.2 2242 B+M Key NVMe or M.2 2230 E-Key NVMe
Construction	Aluminum & steel
Chassis Color	Black & Red
Mounting Type	wall mount
Dimensions	130mm (W) x 102mm (D) x 47.5mm (H)
Weight	0.8kg
Operating Temperature	-15°C~55°C (-5°F~131°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Relative Humidity	5%~95% (non-condensing)
Vibration	Operating: 1 grms / 3~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms
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-8	NVIDIA® Jetson Orin Nano 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

Dimensions and Drawing

