



Specifications

System Mainboard	NVIDIA® Jetson Orin NX 16GB or 8GB/Orin Nano 8GB or 4GB SOM + Carrier Board
CPU Type	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3/6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
System Speed	EC3100-NX-16 / EC3100-NX-8: 2GHz EC3100-NANO-8 / EC3100-NANO-4: 1.5GHz
Memory	NVIDIA® Jetson Orin NX: 16GB 256-bit LPDDR5 102.4 GB/s NVIDIA® Jetson Orin Nano: 4GB 256-bit LPDDR5 34 GB/s
Front Panel External I/O	1x RJ45 GbE for OOB 1x RJ45 GbE for system 1x HDMI 2.1 Type-A 2x USB 3.2 Type-A Gen2, 2x USB 2.0 Type-A 1x Line-out jack 1x Mic-in jack 1x Power button 1x Recovery button 1x Reset button 4x RJ45 GbE support PoE (optional) 1x Antenna holes
Rear Panel External I/O	1x DC-in 9V~36V lockable power jack 1x Remote power connector 4x DI + 4 x DO (pin1 with isolation output 5V @ 0.5A) 2x Edge insert nano SIM socket 1x USB 2.0 Type-C (OTG) 1x USB 2.0 Micro-USB (OOB OTG) 1x RS232 COM port DB9 connector 1x CANBus DB9 connector 2x Antenna holes
Expansion Slots	1x M.2 3052 B-Key 4G/5G 1x M.2 3042 B-Key OOB 4G 1x M.2 2230 E-Key WiFi/BT/GPS 1x M.2 2280 M-Key NVMe
Storage	128GB NVMe
Construction	SGCC
Chassis Color	Black & Red
Mounting Type	wall mount
Dimensions	220mm (W) x 174mm (D) x 80mm (H)
Weight	3kg
Operating Temperature	-20°C~70°C (-40°F~158°F)(Target)
Storage Temperature	-40°C~80°C (-40°F~176°F)
Relative Humidity	10%~90% (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 & LVD

Features

- NVIDIA® Jetson Orin NX and Nano series module
- 2x GbE LAN (1 for OOB)
- 1 x USB Type-C supports Recovery Mode and OTG
- 2 x USB 3.2 Type-A, 2 x USB 2.0 Type-A
- 1 x DB9 for RS232 COM port, 1 x DB9 for CANBus
- 1x HDMI
- 1x M.2 3052 B-Key for 4G/5G
- 1x M.2 3042 B-Key for OOB 4G
- 1x M.2 2230 E-Key for WiFi/BT/GPS
- 1x M.2 2280 M-Key for NVMe SSD
- 1x Summit connector for PoE Board
- Wide-power input range +9V to +36VDC
- Supports Ubuntu 22.04 OS

Ordering Information

EC3100-NX-16	NVIDIA® Jetson Orin NX 16GB, 1x HDMI, 2x GbE, 5x USB, 2x M.2 B-key, 1x M.2 E-key, 1x M.2 M-Key, with power adaptor, with RTC battery
EC3100-NX-8	NVIDIA® Jetson Orin NX 8GB, 1x HDMI, 2x GbE, 5x USB, 2x M.2 B-key, 1x M.2 E-key, 1x M.2 M-Key, with power adaptor, with RTC battery
EC3000-NANO-8	NVIDIA® Jetson Orin Nano 8GB, 1x HDMI, 2x GbE, 5x USB, 2x M.2 B-key, 1x M.2 E-key, 1x M.2 M-Key, with power adaptor, with RTC battery
EC3000-NANO-4	NVIDIA® Jetson Orin Nano 4GB, 1x HDMI, 2x GbE, 5x USB, 2x M.2 B-key, 1x M.2 E-key, 1x M.2 M-Key, with power adaptor, with RTC battery

Dimensions and Drawing

