



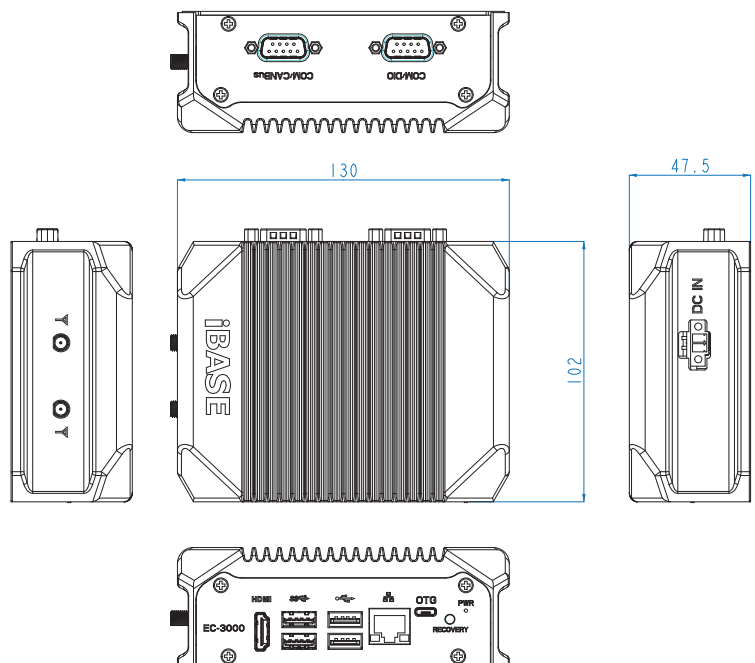
Features

- 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 for 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

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-NX-16	NVIDIA® Jetson Orin NX 16GB, 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



Specifications

System Mainboard	NVIDIA® Jetson Orin NX™ 16 GB/ 8 GB NVIDIA® Jetson Orin Nano™ 8 GB/ 4GB Module Compatibility with carrier board
CPU Type	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
System Speed	EC3000-NX-16/ EC3000-NX-8: 2.0 GHz EC3000-NANO-8/ 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
AI Inference Computing Power	NX 16GB delivery up to 100 TOPS NX 8GB delivery up to 70 TOPS Nano 8GB delivery up to 40 TOPS Nano 4GB delivery up to 20 TOPS
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 12V~24V DC INput with 2-pins terminal block
Expansion Slot	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 3042/3052 B-key (M.2 2242 B + M Key Storage) (default 128 GB) 1x M.2 E-Key 2230
Power Requirement	12V~24V DC
Power Supply	60W
Construction	Aluminum & steel
Chassis Color	Black & Red
Mounting Type	wall mount
Dimensions	130mm (W) x 102mm (D) x 47.5mm (H)
Weight	0.8 kg
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
Operating System	JetPack 6.1