



Features

- 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
- 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores / 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
- 1x M.2 B-Key 3052 for 5G function
- 1x M.2 B-Key 3042 for OOB function
- 1x M.2 E-Key 2230 for WiFi/BT/GPS function
- 1x M.2 M-Key 2280 (NVMe) 2280: storage
- 1x 240-pin SO-DIMM connector
- 1x Summit connector for PoE Board; 1x Summit connector for CSI
- Wide-power input range +9V to +36VDC
- Supports Ubuntu 20.04 OS

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	NA
Memory	NVIDIA® Jetson ORIN NX: 16GB 256-bit LPDDR5 102.4 GB/s NVIDIA® Jetson ORIN Nano: 4GB 256-bit LPDDR5 34 GB/s
Accelerator Card	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores / 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
LAN	2x RJ-45 GbE port (10/100/1000)
Front Panel External I/O	1x RJ45 GbE for OOB function 1x RJ45 GbE for NX 1x HDMI 2.1 2x USB 3.2 Type-A Gen2 2x USB 2.0 Type-A 1x USB 2.0 Type-C (OTG only) 1x DC-in 9V~36V DC / 4-pin DC lock power jack 1x Audio Line-In 1x Mic connector 1x Power button
Rear Panel External I/O	1x Power button 2x Edge insert SIM socket 1x Recovery button 1x Reset button 2x Antenna holes
Expansion Slot	1x M.2 B-Key 3042/3052 (LTE/5G - USB3) w/ Micro-SIM holder: cellular function 1x M.2 B-Key 3042 (USB 2.0) for OOB function 1x M.2 E-Key 2230 (PCI-E/USB2): WiFi/BT/GPS function 1x M.2 M-Key (NVMe) 2280: NVMe 1x MicroSD slot
Storage	N/A
Auto Control and Monitoring	N/A
Power Requirement	9V~36V DC-in
Power Supply	150W 12V power adapter
Construction	SGCC
Chassis Color	Black & Red
Mounting	Desktop & wall mount
Weight	TBD
Dimensions	TBD

Others	1x COM port 2x Summit connector 4x DI + 4x DO
Operating Temperature	-0 ~ 50 °C
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5%~90%@50°C (non-condensing)
Vibration	Operating: 2.0 Grms / 5~500Hz / random operation (with IEC 60068-2-64)
Shock	Operating: 30G/11 ms Duration Non-operating: 40G/11 ms Duration
Certification	CE, FCC & LVD
Operating System	Ubuntu 20.04

Ordering Information

EC3100-NX-16	NVIDIA® Jetson ORIN NX, 8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3, 16GB 256-bit LPDDR5 102.4 GB/s
EC3100-Nano-4	NVIDIA® Jetson ORIN NX/Nano, 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3, 4GB 256-bit LPDDR5 34 GB/s