

EC3100

Edge Computer

Rugged Edge Computer
with NVIDIA® Jetson ORIN NX/Nano series



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
- 9V~36V DC wide-range power input
- Supports Ubuntu 20.04 OS

Specifications

System Board	NVIDIA® Jetson ORIN NX 16GB or 8GB/ORIN Nano 8GB or 4GB SOM + Carrier Board
Processor	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 Memory	NVIDIA® Jetson ORIN NX: 16GB 256-bit LPDDR5 102.4 GB/s NVIDIA® Jetson ORIN Nano: 4 GB 256-bit LPDDR5 34 GB/s
Storage	N/A
Construction	SGCC
Color	Black
Display	HDMI 2.1 Type A
Network	2x RJ-45 GbE port (10/100/1000)
Watchdog	256 levels, 0~128 seconds
Front 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 I/O	1x Power button 2x Edge insert SIM socket 1x Recovery button 1x Reset button 2x Antenna holes
Side I/O	1x COM port 2x Summit connector 4x DI + 4x DO
Expansion slots	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
Fanless	Yes

Dimensions (WxDxH)	212mm (W) x 175mm (D) x 28mm (H)
Mounting	DIN rail, wall mount
Operating Temperature	-0 ~ +50 °C (32°F ~ 122°F)
Relative Humidity	0%~ 90% (non-condensing)
OS Support	Ubuntu 20.04
Certification	CE, FCC & LVD

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