

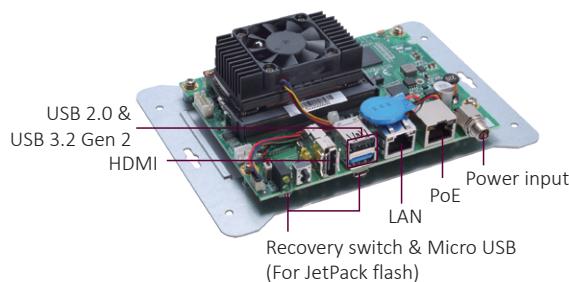
AIE110-ONA

NEW

Edge AI Developer Kit with NVIDIA® Jetson Orin™ Nano, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB



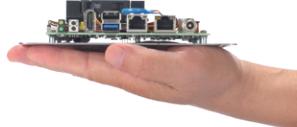
NVIDIA
Super Mode



M.2 Key M 2280 slot for NVMe SSD



PCI Express Mini Card & SIM slot
for LTE/Wi-Fi/BT/GPS



PoE



M.2 NvMe SSD



LPDDR5



4K Ultra HD



12 VDC



NVIDIA



Allxon

Features

- NVIDIA® Jetson Orin™ Nano (up to 67 TOPS)
- Supports Super Mode with Jetpack 6.2 and above
- 1 USB 2.0, 1 USB 3.2 Gen 2, and 1 GbE LAN
- Supports one 15W GbE PoE for camera
- 1 M.2 Key M NVMe SSD slot
- 1 PCI Express Mini Card slot for Wi-Fi/Bluetooth/LTE/GPS
- Enables 24/7 secure remote monitoring, control, and OTA deployment, powered by Allxon

NVIDIA® Jetson Orin™ Nano available through to 2032*

The official end of life notice will be sent for at least 8 months before the last shipment.

Specifications

| | |
|-------------------|--|
| AI Accelerator | NVIDIA® Jetson Orin™ Nano (up to 67 TOPS) |
| CPU | 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 |
| GPU | 8GB: 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores 4GB: 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores |
| System Memory | 8GB: 8GB 128-bit LPDDR5 onboard 4GB: 4GB 64-bit LPDDR5 onboard |
| Carrier Board | SBC87903 |
| System I/O Outlet | 1 x HDMI 1.4 supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Orin™ Nano) 1 x 10/100/1000 Mbps PoE (Intel® I210-IT; max. up to 15W) 1 x USB 3.2 Gen 2 1 x USB 2.0 1 x DIO (pin header) 1 x Micro USB for image flash 1 x recovery switch 1 x reset button 1 x power button 1 x 12 VDC power input connector |

Specifications

| | |
|------------------------|---|
| Watchdog Timer | Built-in Orin™ Nano |
| Storage | 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot *Orin Nano no longer has built-in eMMC and only supports SSD for the bootable device. *The AIE110-ONA requires an SSD for image installation. Kindly order an SSD if you need image installation service. |
| Expansion Interface | 1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot |
| System Indicator | 1 x green LED for system power-on 1 x yellow LED for M.2 storage |
| Power Supply | 12 VDC screw type |
| Operating Temperature | -10°C to +60°C (14°F to +140°F) |
| Relative Humidity | 10% to 95% relative humidity, non-condensing |
| Vibration | IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, and 1 hr/axis) |
| Shock | IEC 60068-2-27 (with SSD: 50G, half-sine, and 11 ms duration) |
| Dimensions (W x D x H) | 165 x 117 x 37.7 mm (6.49" x 4.6" x 1.48") |
| Weight (net/gross) | 0.3 kg (0.68 lb)/1.5 kg (3.31 lb) |
| Certifications | CE |
| OS Support | Linux Ubuntu 20.04 or later *Super mode is only supported in Jetpack 6.2 or above |

Ordering Information

Standard

| | |
|-------------------------------------|---|
| AIE110-ONA-8GB (P/N: E27H110101) | Edge AI developer kit with NVIDIA® Jetson Orin™ Nano 8GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB |
| AIE110-ONA-4GB (P/N: E27H110103) | Edge AI developer kit with NVIDIA® Jetson Orin™ Nano 4GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB |

Optional

M.2 NVMe SSD 128GB or above

*The AIE110-ONA requires an SSD for image installation. Kindly order an SSD if you need image installation service.

LTE module

Wi-Fi module

Power cord

50966124050E 12V/60W adapter

* Specifications and certifications may vary based on different requirements.

Remote Management Enrollment

Allxon Portal - Sign up for 24/7 secure service to access comprehensive remote device management features through a centralized cloud platform

*Enrollment Page: https://allxon.com/jetson/device_enroll/

Packing List

1 x DIO cable

Power Protection

DC Adapter

OVP (over voltage protection)

OCP (over current protection)

UVP (under voltage protection)

SCP (short circuit protection)

Dimensions

