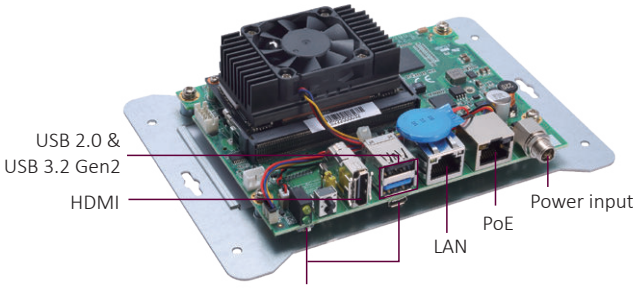
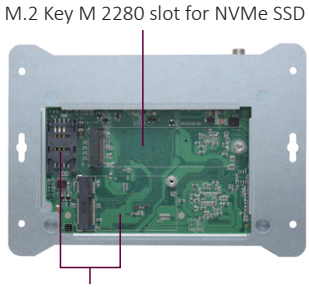
AIE110-ONX NEW

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

NVIDIA Preferred Partner





PoE | M.2 NvMe SSD | LPDDR5 | 4K Ultra HD | 12 VDC | Jetson Orin NX | Allxon DMS

Features

- NVIDIA® Jetson Orin™ NX (up to 100 TOPS)
- 1 USB 2.0, 1 USB 3.2 Gen2, 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™ NX 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™ NX (up to 100 TOPS)
CPU	16GB: 8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 8GB: 6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
System Memory	16GB: 16GB 128-bit LPDDR5 onboard 8GB: 8GB 128-bit LPDDR5 onboard
Carrier Board	SBC87903
System I/O Outlet	1 x HDMI 2.1 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Orin™ NX) 1 x 10/100/1000 Mbps PoE (Intel® I210-IT; max. up to 15W) 1 x USB 3.2 Gen2 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™ NX
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot *Orin NX no longer has built-in eMMC and only supports SSD for the bootable device. *The AIE110-ONX requires an SSD for image installation. Kindly order the 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% - 95% relative humidity, non-condensing
Vibration	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Shock	IEC 60068-2-27 (with SSD: 50G, half-sine, 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

Ordering Information

Standard	
AIE110-ONX-16GB (P/N: E27H110102)	Edge AI developer kit with NVIDIA® Jetson Orin™ NX 16GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB
AIE110-ONX-8GB (P/N: E27H110104)	Edge AI developer kit with NVIDIA® Jetson Orin™ NX 8GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB
Optional	
M.2 NVMe SSD 128GB or above *The AIE110-ONX requires an SSD for image installation. Kindly order the 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/

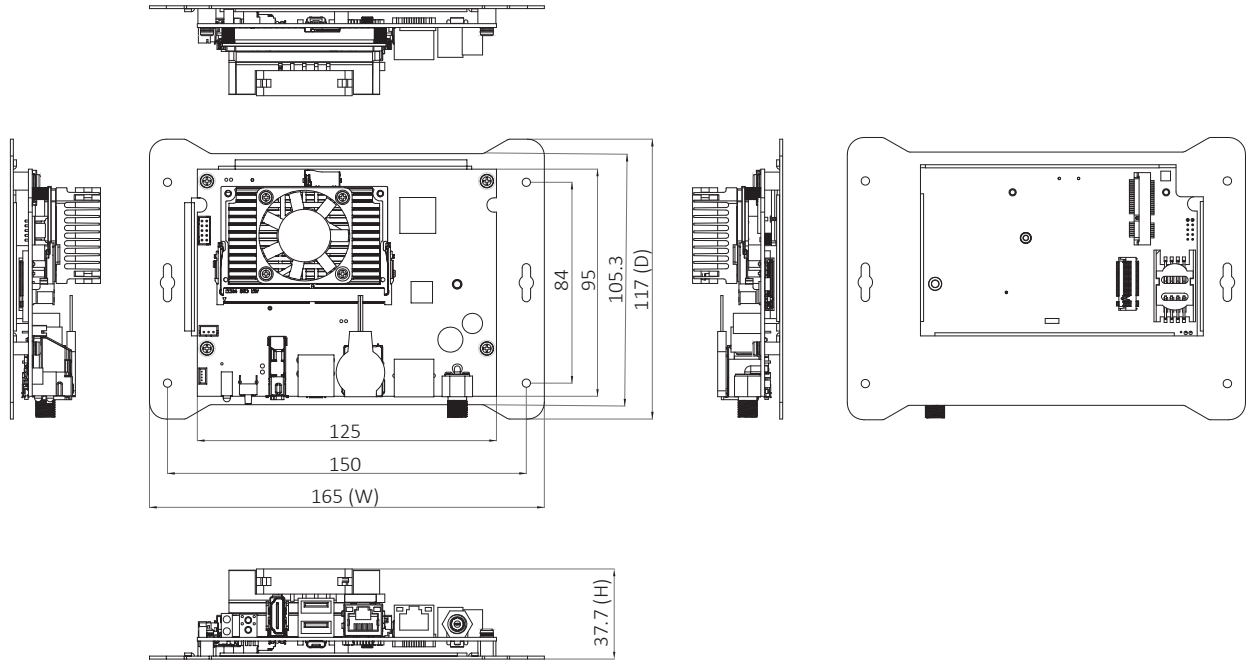
Packing List

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



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