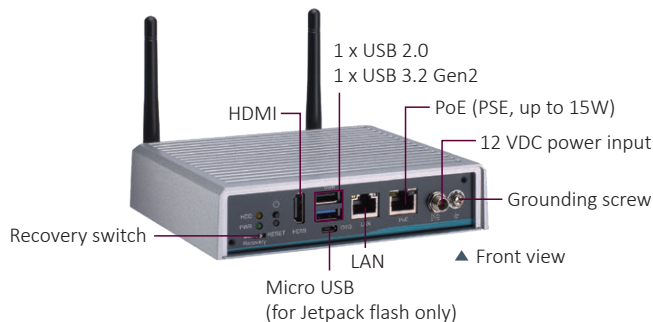# AIE100-ONX NEW

Fanless Edge AI System with NVIDIA® Jetson Orin™ NX, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB, featuring Remote Management Service Powered by Allxon

NVIDIA | Preferred Partner

1 x USB 2.0
1 x USB 3.2 Gen2
PoE (PSE, up to 15W)
12 VDC power input
HDMI
Grounding screw
Recovery switch
▲ Front view
LAN
Micro USB
(for Jetpack flash only)

2 x SMA opening for antennas
▲ Rear view

| IP42 | Fanless | 4K Ultra HD | Low Power | LPDDR5 | 12 VDC | Jetson Orin NX | Allxon DMS |

Features

- NVIDIA® Jetson Orin™ NX (up to 100 TOPS)
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -25°C to +60°C
- Optional IP42 cover kit for semi-outdoor applications
- 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

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40 (IP42 by optional cover kit)
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 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, up to 15W) 1 x USB 3.2 Gen2 1 x USB 2.0 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 2 x SMA-type antenna connector

Specifications

Watchdog Timer	Built-in Orin NX
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot *The Orin NX no longer includes built-in eMMC and now only supports SSD as the bootable device. **The AIE100-ONX requires an SSD for image installation. Please order an SSD if you need image installation services.
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	-25°C to +60°C (-13°F to +140°F) (power mode: 25W)
Relative Humidity	10% to 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)	148.6 x 129.8 x 34.6 mm (5.85" x 5.11" x 1.36")
Weight (net/gross)	0.9 kg (1.93 lb)/1.8 kg (3.97 lb)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 20.04 or later

Ordering Information

Standard

AIE100-ONX-16GB (P/N: E27H100105)	Fanless edge AI system with NVIDIA® Jetson Orin™ NX 16GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB
AIE100-ONX-8GB (P/N: E27H100108)	Fanless edge AI system with NVIDIA® Jetson Orin™ NX 8GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB

Optional

E29R150100	Wall mount kit
E29R150102	DIN-rail kit
E29R150101	VESA mount kit
E29R150103	IP42 waterproof cover kit *Please order the wireless module kit, which includes waterproof antennas.

M.2 NVMe SSD 128GB or above *The AIE100-ONX requires an SSD for image installation. Please order an SSD if you need image installation services.	
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 Screw pack
4 x Foot pad

Power Protection

DC Adapter
OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
SCP (short circuit protection)

Dimensions