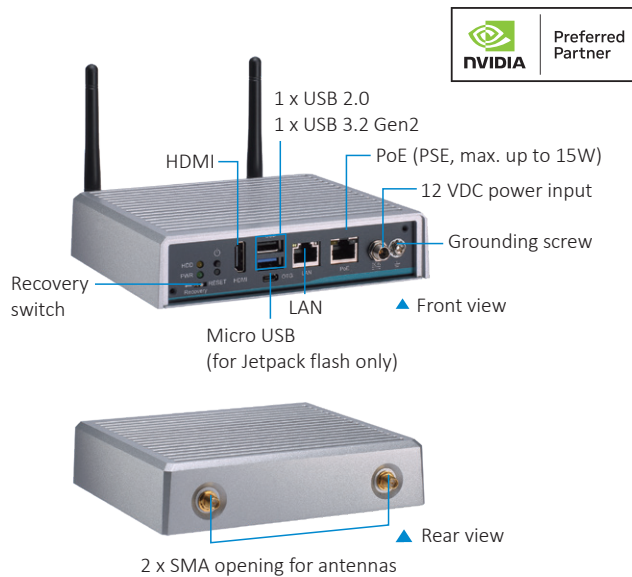


# AIE100-ONX NEW

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



## Features

- NVIDIA® Jetson Orin™ NX, up to 100 TOPS
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -25°C to +50°C
- IP42 rating for semi-outdoor applications
- Supports 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

NVIDIA® Jetson Orin™ NX available through to 2030\*  
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<br>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<br>8GB: 8GB 128-bit LPDDR5 onboard  |
| Carrier Board       | SBC87903  |
| System I/O Outlet   | 1 x HDMI 2.1 with 4K2K supported<br>1 x 10/100/1000 Mbps Ethernet (via Jetson Orin™ NX)<br>1 x 10/100/1000 Mbps PoE (Intel® I210-IT; max. up to 15W)<br>1 x USB 3.2 Gen2, 1 x USB 2.0<br>1 x Micro USB for image flash<br>1 x Recovery switch<br>1 x Reset button<br>1 x Power button<br>1 x 12 VDC power input connector<br>2 x SMA-type antenna connector |
| Watchdog Timer      | Built-in Orin NX  |
| Storage             | 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot<br>*Orin NX no longer has built-in eMMC and only supports SSD for the bootable device.<br>*The AIE100-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)<br>1 x SIM slot   |
| System Indicator    | 1 x Green LED for system power-on<br>1 x Yellow LED for M.2 storage   |
| Power Supply        | 12 VDC screw type   |



8 rue du Colonel Chambonnet  
69500 BRON - FRANCE  
04 72 14 18 00  
info@ip-systemes.fr  
[www.ip-systemes.com](http://www.ip-systemes.com)

## Specifications

|                       |   |
|-----------------------|---|
| Operating Temperature | -25°C to +50°C (-13°F to +122°F) (power mode: 25W)                |
| Humidity              | 10% - 95%, non-condensing   |
| Vibration Endurance   | 3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)                  |
| Dimensions            | 148.6 mm (5.85") (W) x 129.8 mm (5.11") (D) x 34.6 mm (1.36") (H) |
| Weight (net/gross)    | 1 kg (2.20 lb)/1.6 kg (3.52 lb)                                   |
| Certifications        | CE, FCC Class A   |
| OS Support            | Linux Ubuntu 20.04 or later                                       |

## Remote Management Enrollment

Allxon Portal – Enroll in 24/7 secure service to get the full feature of remote device management on one centralized cloud portal

\*Enrollment Page: [https://allxon.com/jetson/device\\_enroll/](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)

## Ordering Information

### Standard

|                                      |  |
|--------------------------------------|--|
| AIE100-ONX-16GB<br>(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                       | Fanless edge AI system with NVIDIA® Jetson Orin™ NX 8GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB  |

### Optional

|              |   |
|--------------|---|
| 8817H1003AOE | Wall mount kit  |
| 8817H1001AOE | DIN-rail kit  |
| 8817H1006AOE | VESA mount kit  |
| 8817H1002AOE | IP42 waterproof cover kit<br>*Please order the wireless module kit that includes the waterproof antennas. |

M.2 NVMe SSD 128GB or above

\*The AIE100-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.

## Dimensions

