

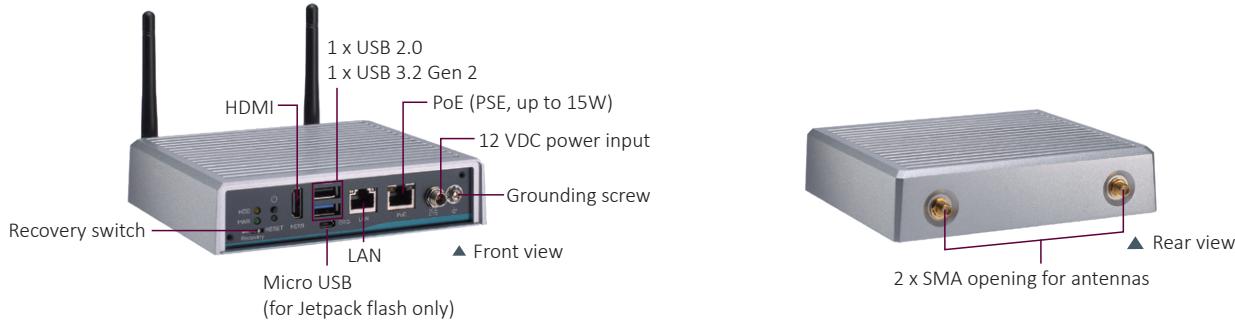
AIE100-ONA

NEW

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



NVIDIA
Super Mode



IP42



Fanless



4K Ultra HD



Low Power



LPDDR5



12 VDC



Jetson
Orin Nano



Allxon DMS

Features

- NVIDIA® Jetson Orin™ Nano (up to 67 TOPS)
- Supports Super Mode with Jetpack 6.2 and above
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -25°C to +70°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™ Nano 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™ Nano (up to 67 TOPS)
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
GPU	4GB: 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores 8GB: 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
System Memory	4GB: 4GB 64-bit LPDDR5 onboard 8GB: 8GB 128-bit LPDDR5 onboard
Carrier Board	SBC87903
System I/O Outlet	1 x HDMI 1.4 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Orin™ Nano) 1 x 10/100/1000 Mbps PoE (Intel® I210-IT, up to 15W) 1 x USB 3.2 Gen 2 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 Nano
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot *The Orin Nano no longer includes built-in eMMC and now only supports SSD as the bootable device. **The AIE100-ONA requires an SSD for image installation. Please 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	AIE100-ONA-8GB: -25°C to +60°C (-13°F to +140°F) AIE100-ONA-4GB: -25°C to +70°C (-13°F to +158°F) *Super mode: -25°C to +60°C (-13°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, 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 *Super mode is only supported in Jetpack 6.2 or above

Ordering Information

Standard

AIE100-ONA-4GB (P/N: E27H100107)	Fanless edge AI system with NVIDIA® Jetson Orin™ Nano 4GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB
AIE100-ONA-8GB (P/N: E27H100106)	Fanless edge AI system with NVIDIA® Jetson Orin™ Nano 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-ONA requires an SSD for image installation. Please 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 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

