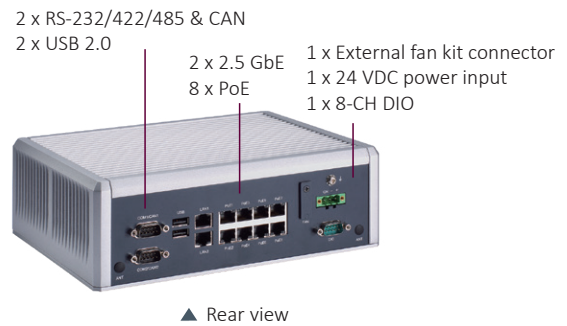
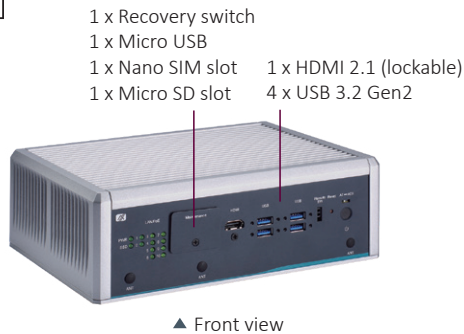


AIE900A-A0 NEW

Fanless Edge AI System with NVIDIA® Jetson AGX Orin™, 1 HDMI, 2 2.5GbE, 8 PoE, 6 USB, 8-CH DI/DO, and 2 COM/CAN for 5G and Robotics Applications



IP40



Fanless



LPDDR5



4K Ultra HD



24 VDC



Jetson
AGX Orin



Smart Ignition



Allxon DMS

Features

- NVIDIA® Jetson AGX Orin™ (up to 275 TOPS)
- Seamless connectivity with 5G, Wi-Fi 6E, and 2.5 GbE combined
- 9 to 36VDC with Ignition (E-Mark compliance)
- Supports 8 PoE and GMSL for camera and LiDAR connectivity
- -25°C to +60°C operating temperature range
- Supports device management and optional OTA deployment, powered by Allxon

NVIDIA® Jetson AGX Orin™ will be available until 2032*

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

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
AI Accelerator	NVIDIA® Jetson AGX Orin™ 32GB (200 TOPS) *By project: NVIDIA® Jetson AGX Orin™ 64GB (275 TOPS)
CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
GPU	1792-core NVIDIA Ampere™ GPU with 56 Tensor Cores
System Memory	32GB 256-bit LPDDR5 204.8GB/s
Carrier Board	PSB906

Specifications

System I/O Outle	1 x Lockable HDMI 2.0 with 4K2K supported 2 x 10/100/1000/2500 Mbps Ethernet (Intel® I226) 8 x 10/100/1000 Mbps PoE (up to 60W) (via LAN switch, 1 Gbps switching capacity) 2 x DB9 for CAN & RS-232/422/485 4 x USB 3.2 Gen2 2 x USB 2.0 1 x 8-CH DI/DO 1 x Remote switch 1 x Reset button 1 x Power button 1 x AT/ATX switch 1 x Micro USB & 1 x recovery switch (for image update) 1 x 24 VDC power input connector 5 x SMA-type antenna opening
Watchdog Timer	Built-in AGX Orin
Storage	64GB eMMC onboard (via Jetson AGX Orin™) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot *The bootable device is supported by eMMC only
Expansion Interface	8-channel GMSL/FPD-LINK/V-by-One automotive camera interfaces (optional) 1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x M.2 Key E 2230 slot for Wi-Fi 6 (E) 1 x M.2 Key B 3052/3042 slot for 5G/LTE 1 x Nano SIM slot
System Indicator	1 x Green LED for system power-on 1 x Green LED for M.2 storage 2 x Green LED for LAN status 8 x Green LED for PoE status
Power Supply	Input: 9 to 36 VDC (typical 12/24 VDC) with ignition power control
Operating Temperature	-25°C to +60°C (-13°F to +140°F)
Humidity	10% to 95%, 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)	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)	3.2 kg (7.05 lb)/4.9 kg (10.8 lb)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 20.04 or later

Ordering Information

Standard

AIE900A-AO-2L8P (P/N: E27H900A00)	Fanless edge AI system with NVIDIA® Jetson AGX Orin™ 32GB, 1 HDMI, 2 2.5GbE, 8 PoE, 6 USB, 8-CH DI/DO, and 2 COM/CAN
--------------------------------------	--

Optional

E29R150110	Wall mount kit
E29R150112	DIN-rail kit
E29R150111	VESA mount kit
E29R150109	External fan kit
M.2 NVMe SSD 128GB or above	
Power cord	
5G module kit	
LTE module kit	
Wi-Fi module kit	
50906A24000E	24V/230W adapter

* Specifications and certifications may vary based on different requirements.

Packing List

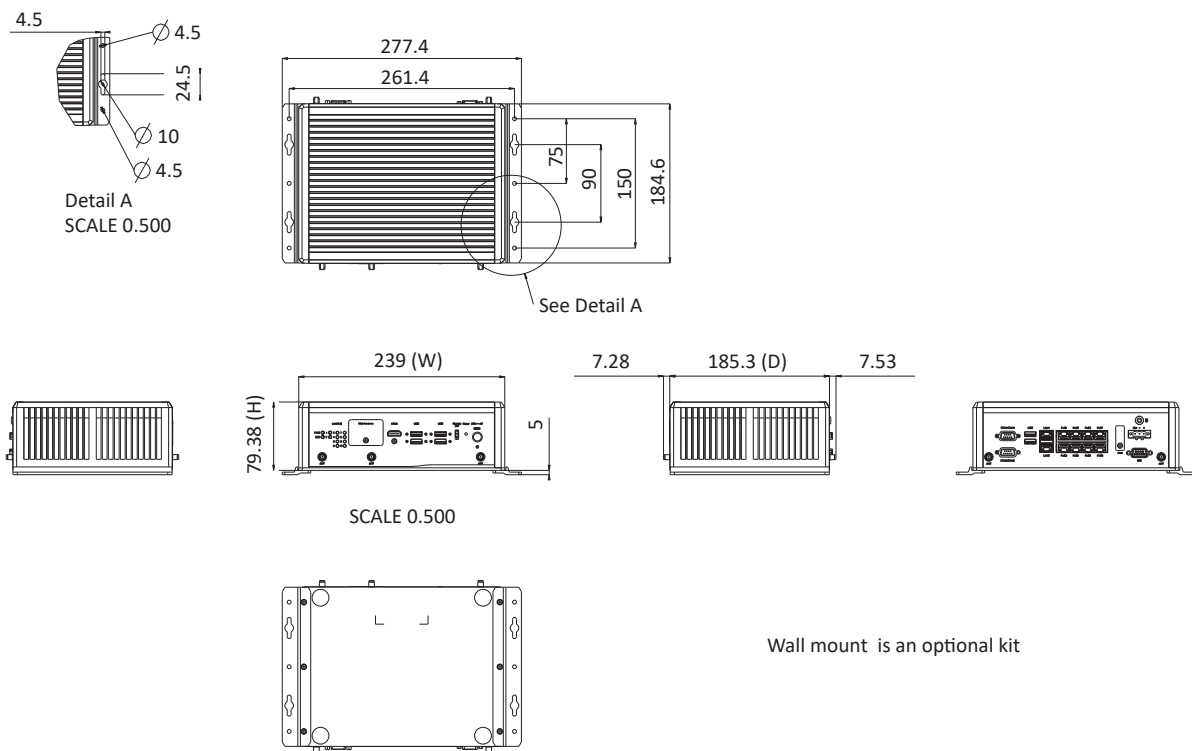
1 x Terminal block connector
1 x Screw pack
4 x Foot pad
1 x M.2 SSD thermal kit
1 x 5G module thermal kit

Power Protection

DC Adapter

OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
Reserve protection

Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Axiomtek:](#)

[AIE900A-AO-2L8P](#)