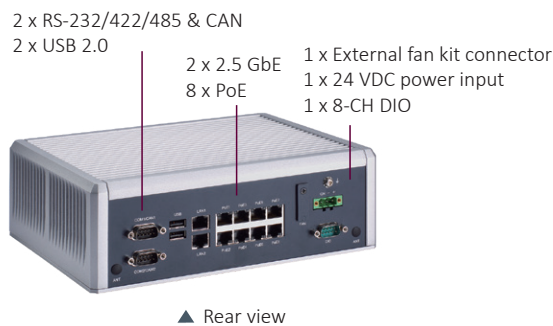
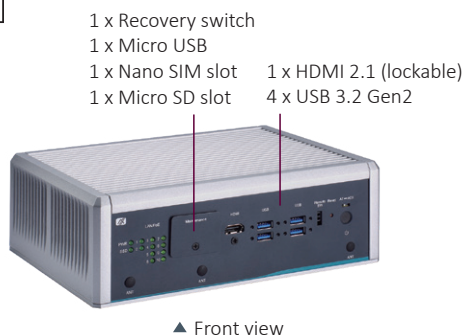


AIE900A-A0 NEW

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
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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

