

AIE900A-AO NEW

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 for 5G and Robotics Applications

- 1 x Recovery switch
- 1 x Micro USB
- 1 x Nano SIM slot
- 1 x Micro SD slot



▲ Front view

- 2 x RS-232/422/485 & CAN
- 2 x USB 2.0
- 2 x 2.5 GbE
- 8 x PoE
- 1 x External fan kit connector
- 1 x 24 VDC power input
- 1 x 8-CH DIO



▲ Rear view

Features

- NVIDIA® Jetson AGX Orin™ 32GB (200 TOPS)
- Seamless speed: 5G, Wi-Fi 6E, and 2.5 GbE combined
- 24VDC with Ignition (e-Mark compliance)
- Supports 8 PoE and GMSL for camera and LiDAR connectivity
- -25°C to +50°C operating temperature range
- Supports device management and optional OTA deployment powered by Allxon

NVIDIA® Jetson AGX Orin™ will be available until 2030*
The official end of life notice will be sent at least 8 months before the last shipment.



Fan kit (optional)



Specifications

| | |
|--------------------|---|
| Standard Color | Silver |
| Construction | Aluminum extrusion and heavy-duty steel, IP40 |
| AI Accelerator | NVIDIA® Jetson AGX Orin™ 32GB (200 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 |
| System I/O Outlets | 1 x Lockable HDMI 2.0 with 4K2K supported 2 x 10/100/1000/2500 Mbps Ethernet (Intel® I226) 8 x 10/100 Mbps PoE (up to 60W) 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 | Onboard 64GB eMMC (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 |

Specifications

| | |
|-----------------------|---|
| Expansion Interface | 8CH 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 | 24 VDC with ignition power control |
| Operating Temperature | -25°C to +50°C (-13°F to +122°F) |
| Humidity | 10% - 95%, non-condensing |
| Vibration Endurance | 3 Grms with M.2 (5 to 500Hz, X, Y, Z directions) |
| Dimensions | 239 mm (9.41") (W) x 185.3 mm (7.3") (D) x 79.4 mm (3.13") (H) |
| Weight (net/gross) | 3 kg (6.61 lb)/3.65 kg (8.04 lb) |
| Certifications | CE, FCC Class A, UKCA |
| OS Support | Linux Ubuntu 20.04 or later |

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

Ordering Information

Standard

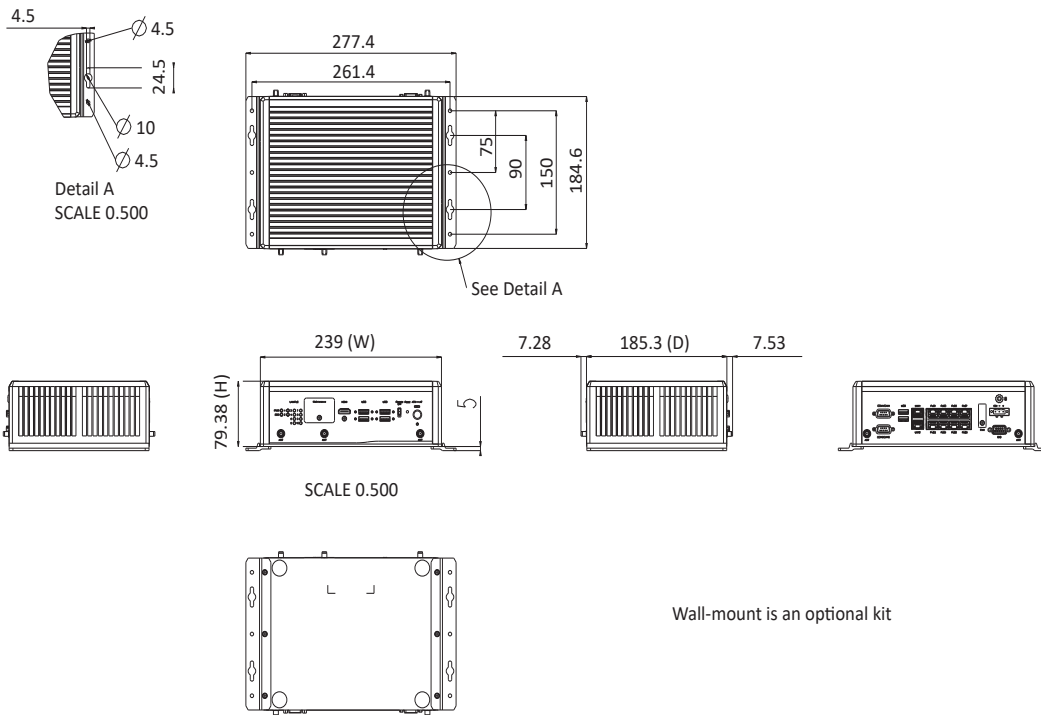
AIE900A-AO-2L8P Fanless edge AI system with NVIDIA® Jetson AGX Orin™ 32GB, 1 HDMI, 2 2.5GbE, 8 PoE, 6 USB, 8-CH DI/DO, and 2 COM/CAN

Optional

| | |
|--------------|-----------------------------|
| 8817H9005AOE | Wall mount kit |
| 8817H9007AOE | DIN-rail kit |
| 8817H9008AOE | VESA mount kit |
| | M.2 NVMe SSD 128GB or above |
| 50906A24000E | 24V/230W adapter |
| | Power cord |
| | 5G module kit |
| | LTE module kit |
| | Wi-Fi module kit |
| | External fan kit |

* Specifications and certifications may vary based on different requirements.

Dimensions



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