

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



Features

- NVIDIA® Jetson AGX Orin™, 1792-core NVIDIA Ampere™ GPU
- 1 M.2 Key B slot for 5G/LTE, 1 M.2 Key E slot for Wi-Fi 6(E)
- 24 VDC with ignition power control
- Supports eight PoE for IP cameras and LiDAR connectivity
- -30°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 2028*

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™
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB 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 Outle	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 RS-232/422/485/CAN 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 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
Expansion Interface	1 x MIPI CSI-2 connector 1 x M.2 Key E 2230 slot for Wi-Fi 6(E) 1 x M.2 Key B 3052/3050/3042 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

Specifications

Operating Temperature	-30°C to +50°C (-22°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)	TBD
Certifications	CE, FCC Class A
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™, 1 HDMI, 2 2.5GbE, 8 PoE, 6 USB, 8-CH DI/DO, and 2 COM/CAN
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Optional

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

* Specifications and certifications may vary based on different requirements.