

eNVP-JAO-AI-V0008

Fanless Embedded Edge AI System
with NVIDIA® Jetson AGX Orin™



Features

- Fanless AI edge embedded box PC
- Powered by NVIDIA® Jetson AGX Orin™
- Onboard 32/64 GB 256-bit LPDDR5
- Multiple I/O interface connections
- Support 8 x Ports PoE
- Supports Allxon OOB remote device management
- 9 ~ 55 VDC wide-range input

Specifications

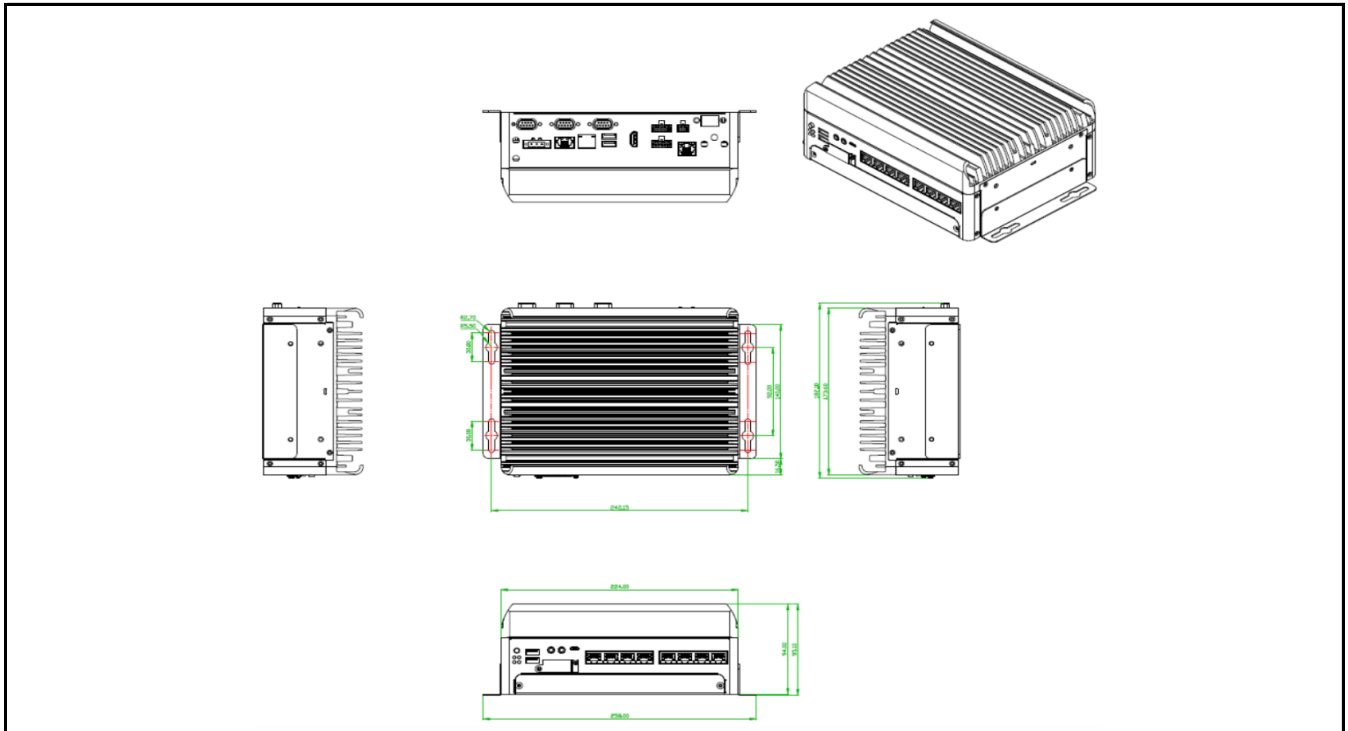
System	
Model	eNVP-JAO-AI-V0008
AI Accelerator	NVIDIA® Jetson AGX Orin™ 32/64 GB
CPU	NVIDIA 8/12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2/3 MB L2 + 4/6 MB L3
GPU	NVIDIA 1792/2048-core Ampere GPU with 56/64 Tensor Cores
Memory	Onboard 32/64 GB 256-bit LPDDR5 204.8 GB/s
Storage	2 x SATA 1 x SD Card slot 1 x NVMe SSD (supported via 1 x M.2 M-Key 2280)
Indicators	4 x LED
Cellular	Supported (via 1 x M.2 E-Key 2230)
Wireless LAN	Supported (via 1 x M.2 B-Key 3042/3052)
Operating System	Linux (NVIDIA JetPack 5.1 and above)
Power	
Power Supply	9 ~ 55 VDC, with ACC function
Ignition Feature	Supported
Power Consumption	TBD

Interface	
Serial Port	2 x RS-232, DB-9 1 x RS-485, Terminal Block
CAN Bus	1 x CAN bus, DB-9
Ethernet	1 x 10GbE LAN 1 x GbE LAN
PoE	8 x PoE 10/100 MbE LAN (Max. Single: 25 W/Max. Total: 75 W)
USB	2 x USB 3.0, Type-A 2 x USB 2.0, Type-A
OTG USB	1 x Micro USB
DIO	8 x GPIO, Terminal Block
Display	1 x HDMI 2.0, Type A
Audio	1 x Audio In/Out
Antenna	5 x SMA connector
Button	1 x PWR 1 x Reset/Recovery Switch
Power	1 x PWR Input, 3-pin Terminal Block
Others	1 x SIM Card slot

General	
Dimensions	224 x 173.6 x 94 mm (8.81" x 6.83" x 3.7")
Weight	4.5 kg
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F) according to IEC60068-2 with 0.5 m/s AirFlow
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Storage Humidity	10% ~ 90%, non-condensing
Certification	CE, FCC Class A, according to EN 55032/55035 Other certifications (by project)
Vibration	TBD
Shock	TBD

Dimension

Unit: mm / inch



Ordering Information

Packing List

- 1 x AI BOX
- 1 x Power Harness Cable
- 2 x SATA Cable
- 2 x Alarm I/O Cable
- 1 x RS-485 Cable
- 2 x Mounting Bracket
- 1 x Screw Kit (4 screws + 8 spacers for mounting bracket, 8 screws for SATA drive)

Part Number

2ENAR00DAP0001R eNVP-JAO-AI-V0008, AGX Orin, 8 x PoE, 9 ~ 55 VDC

Optional Accessories

Part Number

- 4B01XUD24218041** Power Adapter AC100 ~ 240, 24VDC/9.1A
- 4712OBSWIFAC01** Allxon swiftDR OOB Enabler