



Features

- Fanless AI edge embedded box PC
- 8-core Arm® Cortex A78AE v8.2 64-bit CPU, 1792-core Ampere GPU with 56 Tensor Cores (AGX Orin™ 32GB)
- 12-core Arm® Cortex A78AE v8.2 64-bit CPU, 2048-core Ampere GPU with 64 Tensor Cores (AGX Orin™ 64GB)
- Onboard 32 GB 256-bit LPDDR4x 136.5GB/s
- Supports [Allxon](#) OOB remote device management
- Supports 1 x 10GbE LAN, 1x GbE LAN
- Supports 1 x M.2 Key-M 2280 (for NVMe SSD)
- Supports 1 x M.2 Key-B 3042/3052 (for 4G/5G module)
- Supports 1 x M.2 Key-M 2230 (for Wi-Fi/BT module)
- Supports 2 x SATA, 1 x SD Card slot
- Supports 2 x USB 3.0, 2 x USB 2.0
- Supports 1 x CAN bus (isolated)
- Supports 3 x COM (RS485 x 1, RS232 x 2)
- DC 9V~55V wide-range input



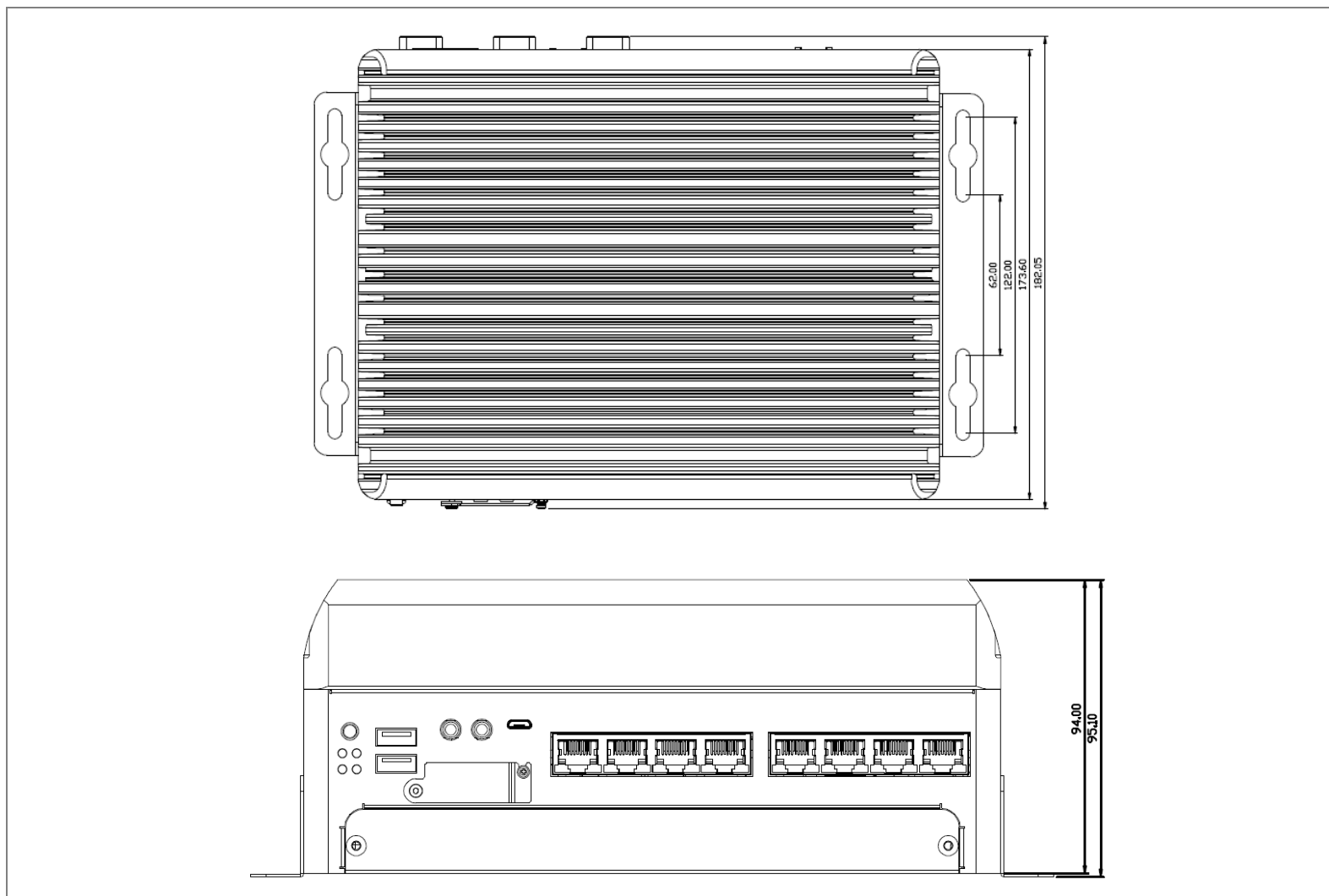
Specifications

System	
Model	eNVP-JAO-AI-V0008
AI Accelerator	NVIDIA® Jetson AGX Orin™ 32GB / NVIDIA® Jetson AGX Orin™ 64GB
CPU	NVIDIA 8-core Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 / NVIDIA 12-core Arm® Cortex A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
GPU	NVIDIA 1792-core Ampere GPU with 56 Tensor Cores / NVIDIA 2048-core Ampere GPU with 64 Tensor Cores
Memory	Onboard 32GB 256-bit LPDDR5 204.8 GB/s / Onboard 64GB 256-bit LPDDR5 204.8 GB/s
Storage	2 x SATA, 1 x SD Card slot, 1 x NVMe SSD (supported via M.2 Key-M 2280 x 1)
Indicator	3 x LED (GbE/PWR/GMSL)
Cellular	Supported (via M.2 Key-E 2230 x 1)
Wireless LAN	Supported (via M.2 Key-B 3042/3052 x 1)
Operating Syst.	Linux (NVIDIA JetPack 5.0 and above)
Power	
Power Supply	DC 9-55V, with ACC function
Ignition Feature	Supported
Power Consump.	TBD

Interface	
Ethernet	10GbE x 1, GbE x 1
PoE	8 x PoE (10/100 MbE, Single-30W/Total-120W)
USB	2 x USB 3.0 (Type-A), 2 x USB 2.0 (Type-A)
OTG USB	--
Serial Port	1 x RS485 (DB9), 2 x RS232 (DB9)
CAN bus	--
DIO	8 x GPIO
Display	1 x HDMI 2.0 a/b
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 (D x W x H)	242 x 177 x 94 mm ³
Weight	4.5 kg
Operating Temp.	-20°C ~ 60°C, according to IEC60068-2 with 0.5 m/s AirFlow
Storage Temp.	-40°C ~ 85°C
Storage Humidity.	10% ~ 90%, non-condensing
Certification	CE/FCC Class A, according to EN 55032/55035; Other certifications (by project)
Vibration	MIL-STD-810G, Method 514.7, Category 4
Shock	MIL-STD-810G, Method 516.7, Procedure I

Dimension

Unit: mm



Ordering Information

Part Number	Packing List
2ENAR00DAP0001R eNVP-JAO-AI-V0008,AGX_Orin,8PoE,DC9-55V	<ul style="list-style-type: none"> • AI BOX x 1 • Power Harness Cable x 1 • SATA Cable x 2 • Alarm I/O Cable x 2 • RS485 Cable x 1 • Mounting Bracket x 2 • Screw Kit x 1 <ul style="list-style-type: none"> - 4 screws + 8 spacers for mounting bracket - 8 screws for SATA drive

Optional Accessories

Part Number / Item	
4B01XUD24218041	Power Adapter AC100-240 DC24V/9.1A 218.4W
471200BSWIFAC01	Allxon swiftDR OOB Enabler