



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



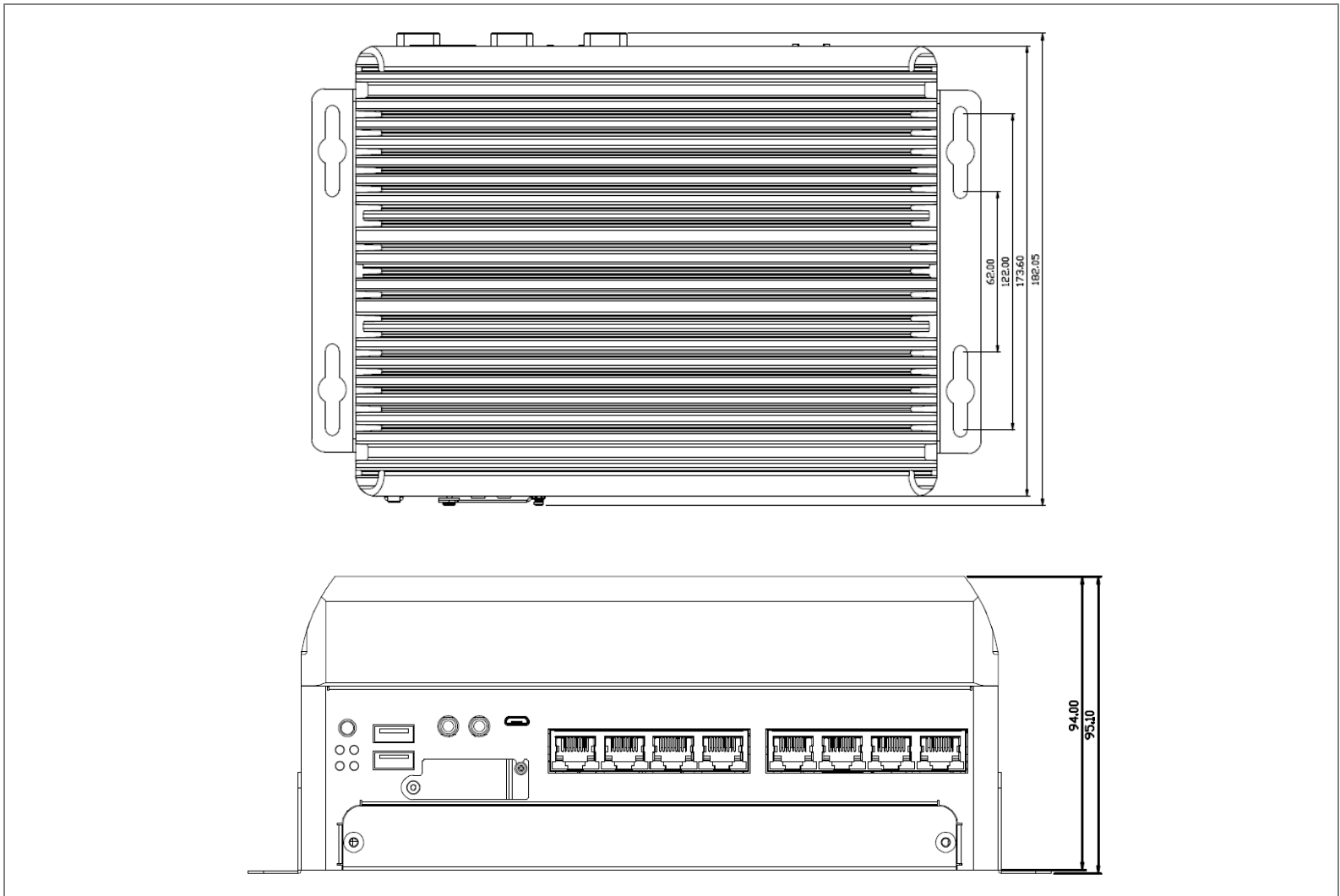
Specifications

| 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 |
| 47120OBSWIFAC01 | Allxon swiftDR OOB Enabler |