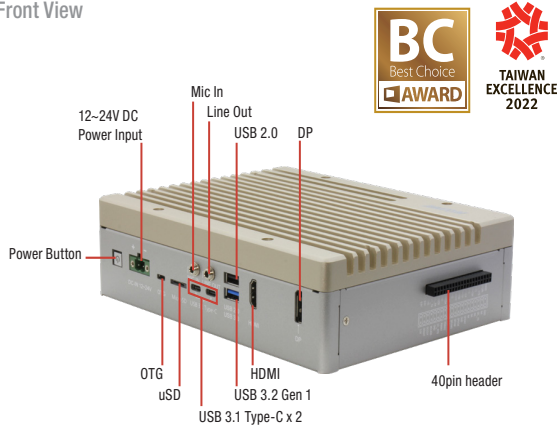


# BOXER-8240AI

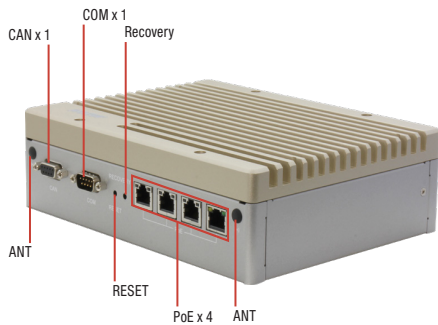
AI@Edge Fanless Embedded Box PC with NVIDIA AGX Xavier

AI@Edge Solutions

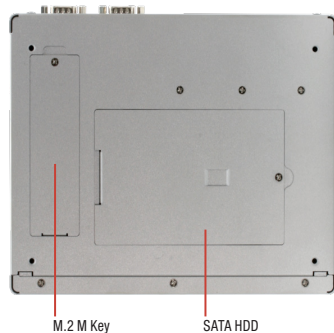
Front View



Rear View



Bottom View



## Features

- 512-core Volta GPU with Tensor Cores
- Support RJ-45 x 4 for PoE (802.11af, total 60W)
- Support DB-9 x 1 for RS-232/422/485, CANBUS x 1
- Support 40-pin header, Mic in and Line out
- Support M.2 E key, M key and SATA storage



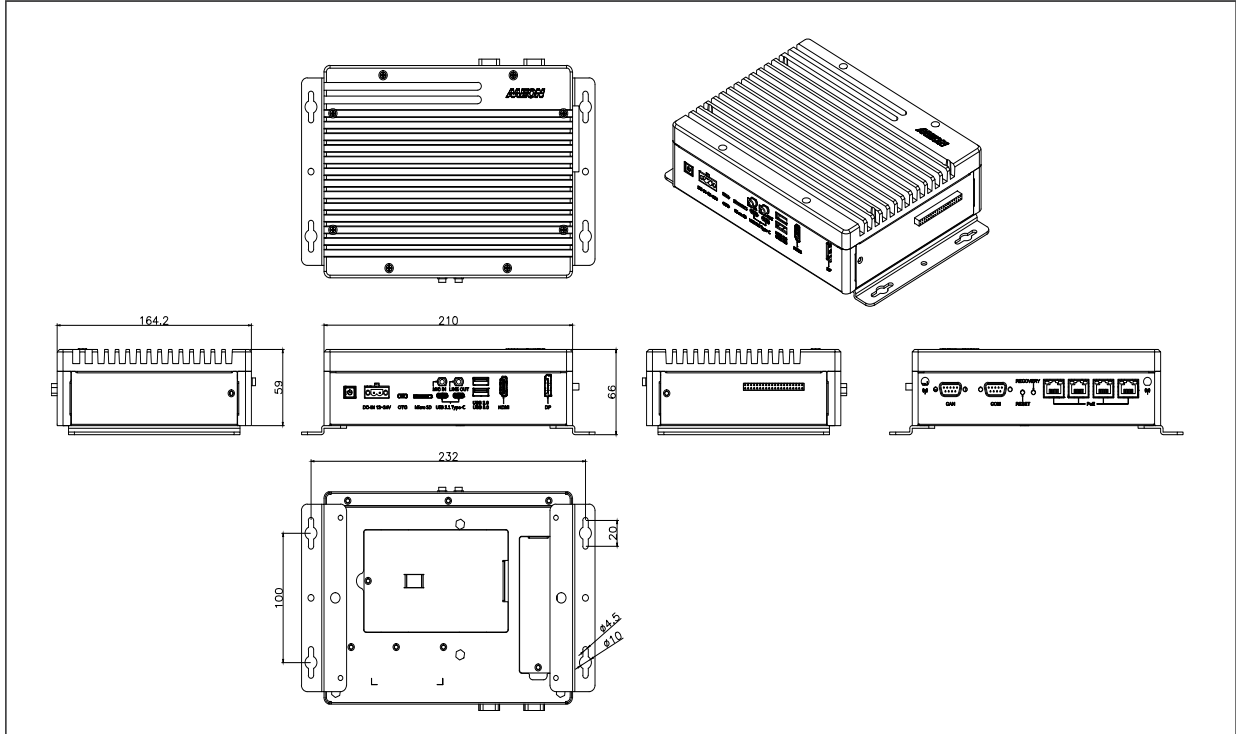
## Specifications

| System                 |  |
|------------------------|--|
| AI Accelerator         | NVIDIA® AGX Xavier   |
| CPU                    | 8-core ARM v8.2 64bit CPU, 8MB L2 + 4MB L3   |
| System Memory          | 32GB 256-Bit LPDDR4x 137GB/s   |
| Storage Device         | 32GB eMMC 5.1<br>Micro SD card slot<br>2.5" SATA drive bay<br>M.2 Key M 2280   |
| Display Interface      | HDMI 2.0 x 1   |
| Ethernet               | 10/100/1000 Base-TX with IEEE 802.11 af PoE LAN x 4  |
| I/O                    | PoE x 4 (IEEE 802.af, total 60W)<br>USB Type A x 1 for USB 3.2 Gen 1<br>USB Type C x 2 for USB 3.2 Gen 1<br>USB Type A x 1 for USB 2.0<br>RS-232/422/485 x1<br>CANBUS x 1<br>HDMI 2.0 x1<br>DP 1.4 x 1<br>Mic-in x 1<br>Line-out x 1<br>MicroSD slot x 1<br>Micro USB x 1 for OS Flash<br>Recovery button x 1<br>Power button x 1<br>40-pin header compliance with NVIDIA Dev Kit 40 pins (4 pins CANBUS occupied) |
| Expansion              | USB 2.0 header x 1 (Optional, circuit reserved)<br>M.2 Key E 2230 x 1 for WiFi/Bluetooth (PCIe[x1] + USB)<br>M.2 Key M 2280 x 1 (PCIe[x4])<br>SATA x 1<br>RS-232/422/485 pin header x 1  |
| Indicator              | Power LED x 1  |
| OS Support             | Linux (NVIDIA Jetpack 4.5 and above)<br>Linux (AAEON AClinux 4.9)  |
| Power Supply           |  |
| Power Requirement      | DC 12V~24V 2-pin terminal  |
| Mechanical             |  |
| Mounting               | Wallmount  |
| Dimensions (W x D x H) | 8.26" x 6.46" x 2.32" (210mm x 164.2mm x 59mm)   |
| Gross Weight           | 6 lbs (2.72kg)   |
| Net Weight             | 4.23 lbs (1.92kg)  |
| Environmental          |  |
| Operating Temperature  | 14°F ~ 131°F (-10°C ~ 55°C, according to IEC60068-2 with 0.5 m/s AirFlow)  |
| Storage Temperature    | -40 °F ~ 158°F(-40°C ~ 70°C)   |
| Storage Humidity       | 95% @ 40°C, non-condensing   |
| Anti-Vibration         | Random, 3 Grms, 5 ~ 500Hz  |
| Anti-Shock             | —  |
| Certification          | CE/FCC class A   |

# BOXER-8240AI

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AI@Edge Solutions

**Dimension** Unit: mm



**Ordering Information**

| Part Number                | AI SOLUTION       | POE | USB                             | RS-232/422/485 | CANBUS                       | STORAGE                                 | EXPANSION | DISPLAY           | AUDIO                    | MOUNTING  | POWER      | OPERATION TEMP | OPERATION SYSTEM   |
|----------------------------|-------------------|-----|---------------------------------|----------------|------------------------------|---|-----------|-------------------|--------------------------|-----------|------------|----------------|--------------------|
| BOXER-8240AI-A1-1111       | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | MIC-in x1<br>LINE-OUT x1 | Wallmount | DC 12V~24V | -10°C ~ 55°C   | ACLinux            |
| BOXER-8240AI-A2-1111       | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | —                        | Wallmount | DC 12V~24V | -10°C ~ 55°C   | ACLinux            |
| BOXER-8240AI-A3-1111       | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | MIC-in x1<br>LINE-OUT x1 | Wallmount | DC 12V~24V | -10°C ~ 55°C   | NVIDIA Jetpack 4.5 |
| BOXER-8240AI-A4-1111       | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | —                        | Wallmount | DC 12V~24V | -10°C ~ 55°C   | NVIDIA Jetpack 4.5 |
| BOXER-8240AI-JP46E-A1-1111 | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | MIC-in x1<br>LINE-OUT x1 | Wallmount | DC 12V~24V | -10°C ~ 55°C   | NVIDIA Jetpack 4.6 |
| BOXER-8240AI-JP46E-A2-1111 | NVIDIA AGX Xavier | 4   | USB 3.2 Gen 1 x 2 + 2 (TypeA+C) | 1              | Dual Canbus in one Connector | eMMC / M.2 M Key / Micro-SD / 2.5" SATA | M.2 E Key | HDMI x 1<br>DP x1 | —                        | Wallmount | DC 12V~24V | -10°C ~ 55°C   | NVIDIA Jetpack 4.6 |

**Packing List**

- BOXER-8240AI
- Power Connector x 1

**Optional Accessories**

- 1255X00035  
120W Power Adapter
- 1702031802  
Power Cord (US type)
- 1702031803  
Power Cord (European Type)
- 170203180E  
Power Cord (Japanese Type)

Note: All specifications are subject to change without notice.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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