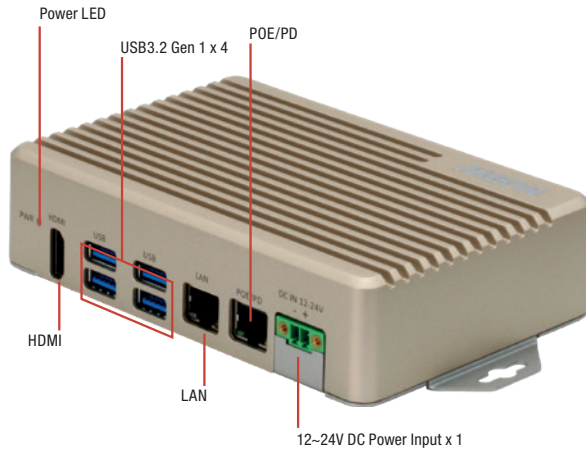


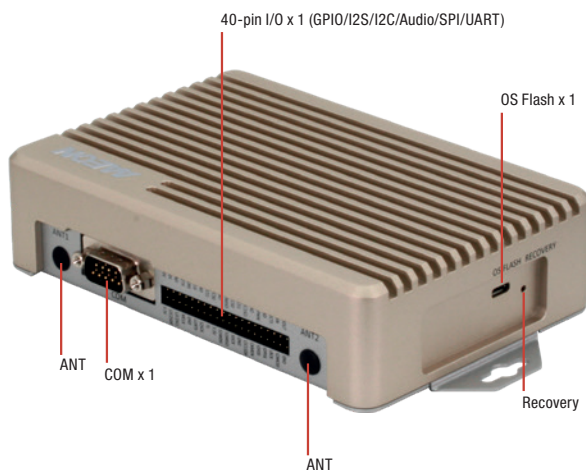
# BOXER-8222AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson Nano, PD Port

Front View



Rear View



## Features

- NVIDIA Jetson Nano
- PoE/PD x 1
- 4GB LPDDR4 + 32GB SD card slot
- USB 3.2 Gen 1 x 4
- M.2 E-key slot x 1 for WiFi function expansion
- DC 12 ~ 24V wide voltage power input
- Wide working temperature -10°C ~ 70°C

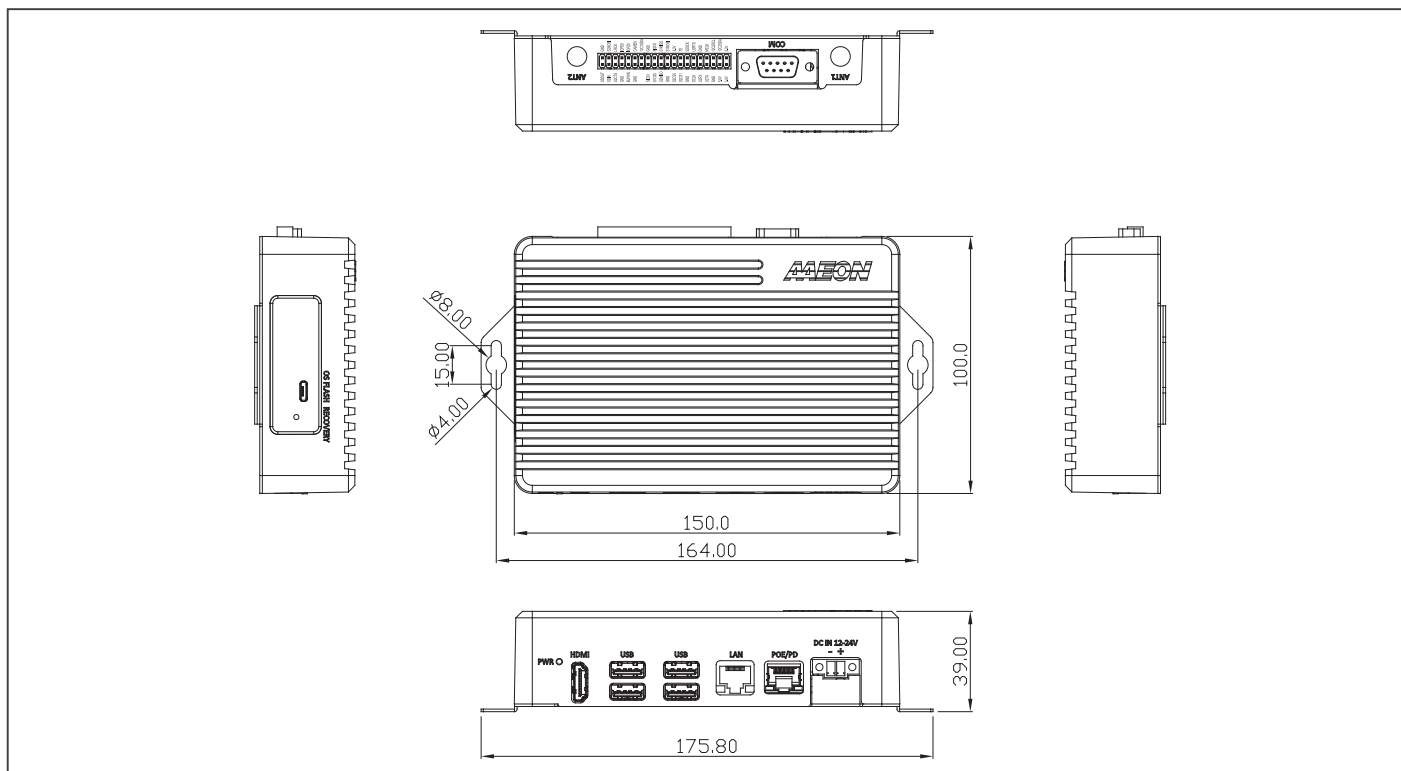


## Specifications

| System                 |                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI Accelerator         | Nvidia® Jetson Nano™                                                                                                                                                                                                                                        |
| CPU                    | Quad Core ARM® Cortex®-A57 MPCore Processor                                                                                                                                                                                                                 |
| System Memory          | 4GB LPDDR4                                                                                                                                                                                                                                                  |
| Storage Device         | 32 GB MicroSD Card (Jetson Nano version B)<br>Mini-Card (Full Size) x 1 (PCIe+SATA+USB)                                                                                                                                                                     |
| Display Interface      | HDMI 2.0 x 1                                                                                                                                                                                                                                                |
| Ethernet               | 10/100/1000Base-TX x 2                                                                                                                                                                                                                                      |
| I/O                    | USB3.2 Gen 1 x 4 (USB Type A)<br>GbE LAN x 2 (GbE PD x 1 + GbE LAN x 1)<br>40-pin I/O x 1 (GPIO/I2S/I2C/Audio/SPI/UART)<br>DB-9 (RS-232) x 1<br>HDMI 2.0 a/b x 1 (HDMI Type A)<br>OS Flash port x 1 (Micro USB)<br>Recovery port x 1<br>Antenna opening x 2 |
| Expansion              | Antenna x 2<br>M.2 2230 E Key x 1 (for Wi-Fi)                                                                                                                                                                                                               |
| Indicator              | Power LED x 1                                                                                                                                                                                                                                               |
| OS Support             | ACLinux 4.9 or above (Compatible with Ubuntu 18.04)                                                                                                                                                                                                         |
| Power Supply           |                                                                                                                                                                                                                                                             |
| Power Requirement      | DC 12V~24V 2-pin terminal                                                                                                                                                                                                                                   |
| Mechanical             |                                                                                                                                                                                                                                                             |
| Mounting               | Wallmount                                                                                                                                                                                                                                                   |
| Dimensions (W x D x H) | 6.92" x 3.94" x 1.54" (175.8 mm x 100.0 mm x 39.0 mm)                                                                                                                                                                                                       |
| Gross Weight           | 2.31 lbs (1.05 kg)                                                                                                                                                                                                                                          |
| Net Weight             | 1.28 lbs (0.58 kg)                                                                                                                                                                                                                                          |
| Environmental          |                                                                                                                                                                                                                                                             |
| Operating Temperature  | 14°F ~ 158°F (-10°C ~ 70°C, according to IEC60068-2 with 0.5 m/s AirFlow)                                                                                                                                                                                   |
| Storage Temperature    | -40 °F ~ 176°F(-40°C ~ 80°C)                                                                                                                                                                                                                                |
| Storage Humidity       | 95% @ 40C, non-condensing                                                                                                                                                                                                                                   |
| Anti-Vibration         | Random, 3.5Grms, 5~500Hz                                                                                                                                                                                                                                    |
| Certification          | CE/FCC class A                                                                                                                                                                                                                                              |

## Dimension

Unit: mm



## Ordering Information

| Part Number          | AI solution          | LAN                       | USB 3.2 Gen 1 | RS-232 | 40-pin I/O                                                                             | Storage                                                  | Expansion               | Display  | Mounting  | Power      | Operation temp.                  |
|----------------------|----------------------|---------------------------|---------------|--------|----------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|----------|-----------|------------|----------------------------------|
| BOXER-8222AI-A1-1010 | NVIDIA® Jetson Nano™ | GbE PD x 1<br>GbE LAN x 1 | 4             | 1      | 3.3V x 2 pin, 5.0V x 2 pin, GND x 8 pin, I2C x 2, SPI x 2, I2S x 1, UART x 1, GPIO x 4 | 32 GB MicroSD Card x 1<br>Mini-Card (Full Size) slot x 1 | M.2 E-key 2230 slot x 1 | HDMI x 1 | Wallmount | DC 12V~24V | -10°C ~ 70°C with 0.5m/s airflow |

## Packing List

- Power Connector x 1
- BOXER-8222AI

## Optional Accessories

- 1255300611  
60W Power Adapter
- 1702031802  
Power Cord (US type)
- 1702031803  
Power Cord (European Type)
- 170203180E  
Power Cord (Japanese Type)