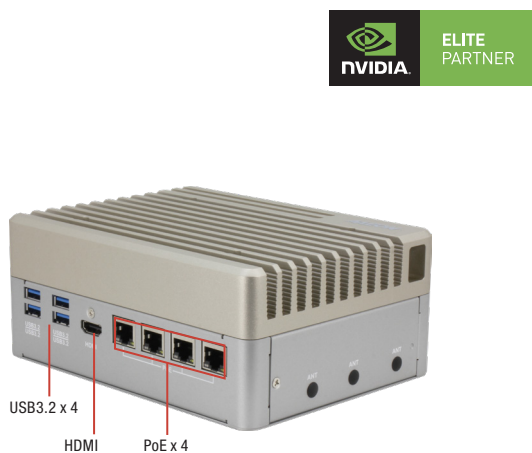


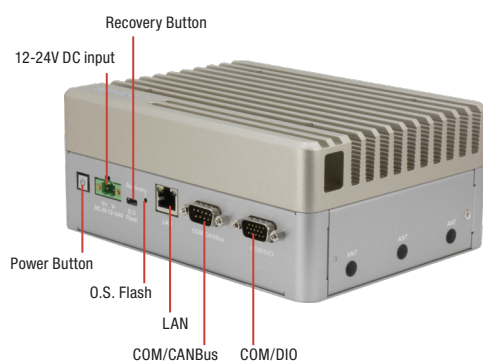
# BOXER-8623AI

AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin Nano™

Front View



Rear View



## Features

- NVIDIA® Jetson Orin Nano™
- GbE PoE/PSE 802.3af/at x 4 + GbE LAN x 1
- M.2 2230 E-Key x 1, M.2 2280 M-Key x 1, M.2 3042/3052 B-Key x 1
- COM/CANBus/DIO
- Operating Temperature: -15°C ~ 65°C



## Specifications

| System                 |                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI Accelerator         | NVIDIA® Jetson Orin Nano™                                                                                                                                                                                                                   |
| CPU                    | 6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU                                                                                                                                                                                                |
| System Memory          | 4GB LPDDR5<br>8GB LPDDR5                                                                                                                                                                                                                    |
| Storage Device         | M.2 2280 M Key x 1                                                                                                                                                                                                                          |
| Display Interface      | HDMI 1.4 (Type-A) x 1                                                                                                                                                                                                                       |
| Ethernet               | RJ-45 x 1 for GbE LAN<br>RJ-45 x 4 for GbE PoE/PSE 802.3af/at (Max.60W)                                                                                                                                                                     |
| I/O                    | USB 3.2 Gen 2 (Type-A) x 4<br>DB-9 x 1 for RS-232 (Rx/Tx/CTS/RTS) x 1 and CANBus FD x 1<br>DB-15 x 1 for RS-232(Rx/Tx)/422/485 x 1 and DIO x 8<br>Micro USB x 1 for OS Flash<br>Power Button x 1<br>Recovery Button x 1<br>Antenna Hole x 6 |
| Expansion              | M.2 2280 M-Key x 1 (NVMe)<br>M.2 3042/3052 B-Key x 1<br>M.2 2230 E-Key x 1<br>SIM Slot x 1                                                                                                                                                  |
| Indicator              | Power LED x 1                                                                                                                                                                                                                               |
| OS Support             | Linux (NVIDIA Jetpack™ 5.0 and up)                                                                                                                                                                                                          |
| Power Supply           |                                                                                                                                                                                                                                             |
| Power Requirement      | 12V ~ 24V DC in with 2-pin Terminal Block x 1                                                                                                                                                                                               |
| Mechanical             |                                                                                                                                                                                                                                             |
| Mounting               | Wall Mount                                                                                                                                                                                                                                  |
| Dimensions (W x D x H) | 7.09" x 5.35" x 2.95" (180mm x 136mm x 75mm)                                                                                                                                                                                                |
| Gross Weight           | 7.7 lb (3.5kg)                                                                                                                                                                                                                              |
| Net Weight             | 5.5 lb (2.5kg)                                                                                                                                                                                                                              |
| Environmental          |                                                                                                                                                                                                                                             |
| Operating Temperature  | 5°F ~ 149°F (-15°C ~ 65°C), according to IEC60068-2 with 0.5 m/s AirFlow                                                                                                                                                                    |
| Storage Temperature    | -40°F ~ 185°F (-40°C ~ 85°C)                                                                                                                                                                                                                |
| Storage Humidity       | 5% ~ 95% @ 40°C, non-condensing                                                                                                                                                                                                             |
| Anti-Vibration         | 3.5Grms / 5~500Hz / Operation                                                                                                                                                                                                               |
| Anti-Shock             | 50G peak acceleration                                                                                                                                                                                                                       |
| Certification          | CE/FCC class A                                                                                                                                                                                                                              |



ES France - Mobilité & Systèmes Embarqués  
127 rue de Buzenval BP 26 - 92380 Garches



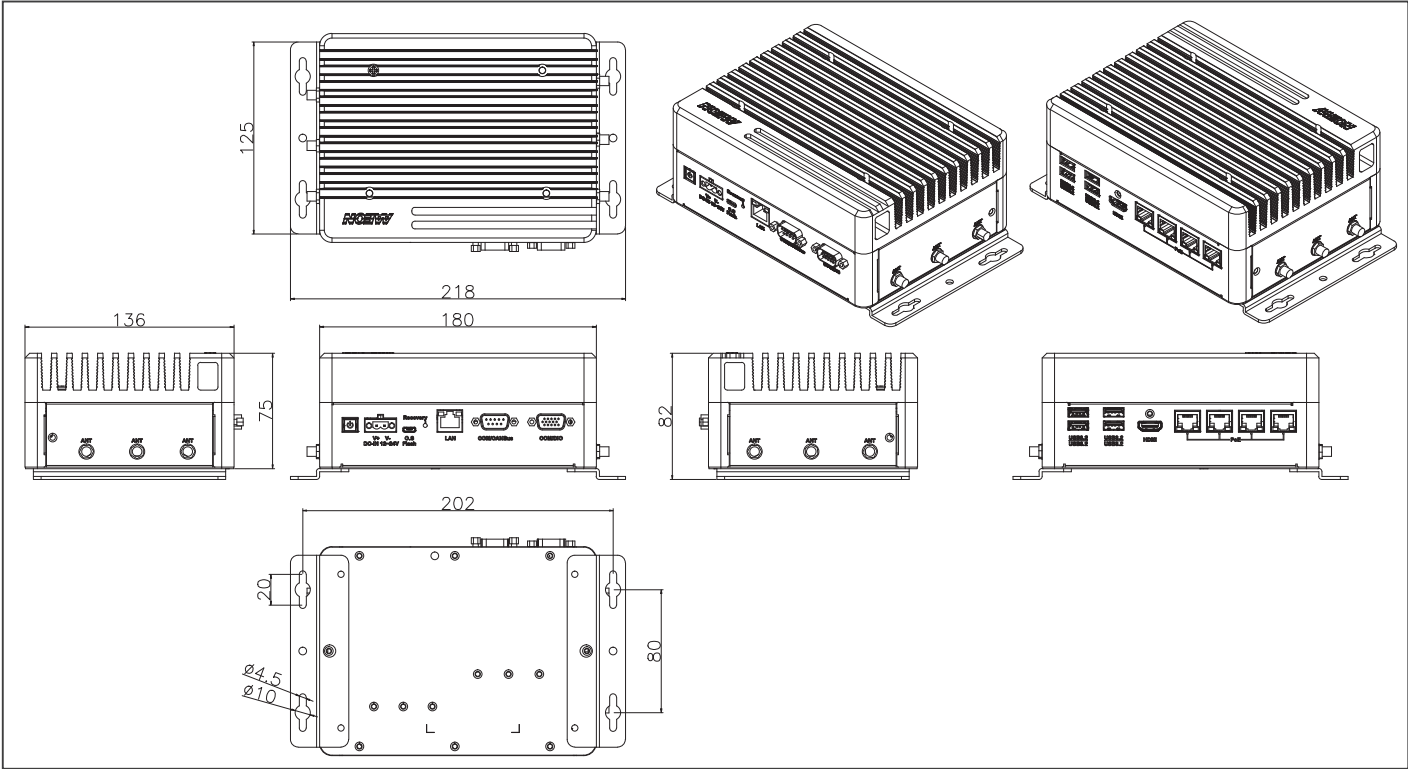
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Dimension

Unit: mm



Packing List

- BOXER-8623AI x 1
- Wallmount Bracket x 2
- Power connector x 1
- Screw Package x 1

Optional Accessories

- 1255X00066  
120W Power Adapter
- 1702031802  
Power Cord (US type)
- 1702031803  
Power Cord (European Type)
- 170203180E  
Power Cord (Japanese Type)

Ordering Information

| PART NUMBER                 | AI SOLUTION                   | LAN | POE | USB           | COM | CANBUS | DIO | STORAGE                                         | DISPLAY  | MOUNTING   | POWER                              | OPERATION SYSTEM                     |
|-----------------------------|-------------------------------|-----|-----|---------------|-----|--------|-----|-------------------------------------------------|----------|------------|------------------------------------|--------------------------------------|
| BOXER-8623AI-JP511N-A1-1010 | NVIDIA® Jetson Orin Nano™ 4GB | 1   | 4   | 3.2 Gen 2 x 4 | 2   | 1      | 8   | M.2 2280 M-Key x 1 for Storage (Default: 128GB) | HDMI x 1 | Wall mount | 12 ~ 24VDC w/ 2 pin terminal block | Linux (NVIDIA Jetpack™ 5.0 or above) |
| BOXER-8623AI-JP511N-A2-1010 | NVIDIA® Jetson Orin Nano™ 8GB | 1   | 4   | 3.2 Gen 2 x 4 | 2   | 1      | 8   | M.2 2280 M-Key x 1 for Storage (Default: 128GB) | HDMI x 1 | Wall mount | 12 ~ 24VDC w/ 2 pin terminal block | Linux (NVIDIA Jetpack™ 5.0 or above) |