

# BOXER-6406-ADN

Fanless Compact Embedded Computer with Intel Atom® x7211E and Intel® Processor N-series Processors

Ultra Slim Fanless BOX PC Solutions

Front View



Rear View



## Features

- Intel Atom® x7211E and Intel® Processor N-series Processors (formerly Alder Lake-N)
- DDR5 4800Mhz SODIMM
- 2.5GbE x 2
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1
- USB 3.2 Gen 2 x 2 (Type-A)
- Onboard TPM 2.0
- Wide Range 9 ~ 36V DC input
- Wide Operating Temperature -20 ~ 60°C
- Compact Size



## Specifications

| System                 |   |
|------------------------|---|
| CPU                    | Intel® Processor N200<br>Intel® Processor N50<br>Intel Atom® x7211E<br>(formerly Alder Lake-N)  |
| Chipset                | Intel® SoC  |
| System Memory          | DDR5 4800Mhz SODIMM x 1, up to 32GB   |
| Display Interface      | HDMI x 2  |
| Storage Device         | M.2 2280 M-Key x 1 (PCIe Gen 3 x 2)<br>2.5" SATA HDD/SSD x 1  |
| Ethernet               | RJ-45 x 2 for 2.5GbE LAN (Intel® I226-LM)   |
| I/O                    | HDMI x 2<br>RJ-45 x 2 for 2.5GbE LAN (Intel® I226-LM)<br>USB 3.2 Gen 2 x 2 (Type-A)<br>USB 2.0 x 2 (Type-A)<br>DB-9 x 3 for RS-232/422/485<br>DB-15 x 1 Male for Digital I/O 8-Channel<br>3-pin Terminal Block for DC In x 1<br>Power Button with LED x 1 |
| Expansion              | M.2 2280 M-Key x 1 (PCIe [x2])<br>M.2 2230 E-Key x 1<br>Full-Size Mini Card x 1 (PCIe + USB)<br>SIM Slot x 1  |
| Indicator              | —   |
| OS support             | Windows® 10 IoT Enterprise<br>Windows® 11 Pro<br>Linux Ubuntu 22.04   |
| Power Supply           |   |
| Power Requirement      | 9 ~ 36V DC-In x 1 for 3-pin Terminal Block  |
| Mechanical             |   |
| Mounting               | Wallmount   |
| Dimensions (W x H x D) | 7.32" x 4.12" x 1.93" (186mm x 104.6mm x 49.1mm) without bracket<br>8.74" x 4.12" x 2.21" (222mm x 104.6mm x 56.1mm) with bracket   |
| Gross Weight           | 4.32 lb (1.96 Kg)   |
| Net Weight             | 2.56 lb (1.16 Kg)   |
| Environmental          |   |
| Operating Temperature  | -4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)   |
| Storage Temperature    | -40°F ~ 176°F (-40°C ~ 80°C)  |
| Storage Humidity       | 5 ~ 95% @ 40°C, non-condensing  |
| Anti-Vibration         | 3 Grms/ 5 ~ 500Hz/ operation (with SSD)   |
| Anti-Shock             | 50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)  |
| Certification          | CE/FCC Class A  |

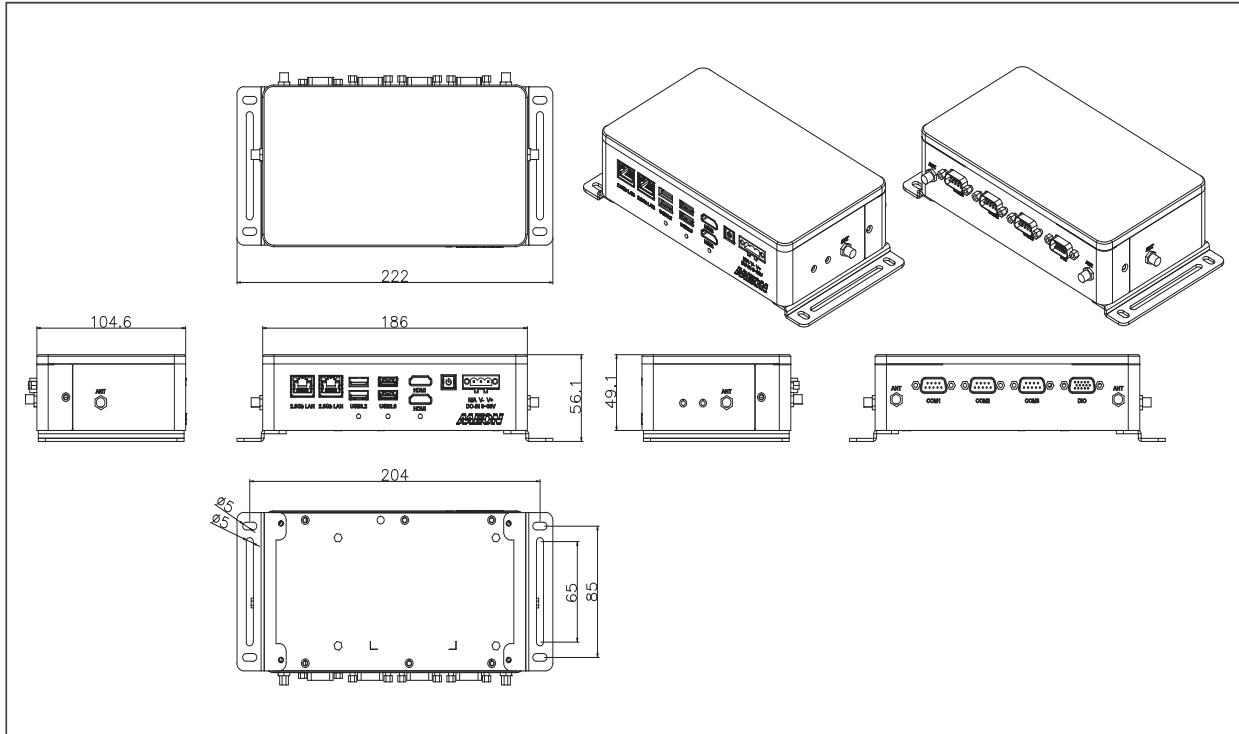
# BOXER-6406-ADN

04

Ultra Slim Fanless BOX PC Solutions

## Dimension

Unit: mm



## Ordering Information

| Part Number            | CPU                   | LAN | PCH       | USB 3.2 Gen 2 | USB 2.0 | RS-232/422/485 | Storage   | Display  | Expansion  | Mounting  | Power       | Operation Temp.   |
|------------------------|-----------------------|-----|-----------|---------------|---------|----------------|---|----------|--|-----------|-------------|---|
| BOXER-6406-ADN-A1-1010 | Intel® Processor N200 | 2   | Intel SoC | 2             | 2       | 3              | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>2.5" SATA Drive Bay x 1 | HDMI x 2 | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>M.2 2230 E-Key x 1<br>Full-Size Mini Card x 1 (PCIe + USB)<br>SIM Slot x 1 | Wallmount | 9~36V DC in | -4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM) |
| BOXER-6406-ADN-A2-1010 | Intel® Processor N50  | 2   | Intel SoC | 2             | 2       | 3              | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>2.5" SATA Drive Bay x 1 | HDMI x 2 | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>M.2 2230 E-Key x 1<br>Full-Size Mini Card x 1 (PCIe + USB)<br>SIM Slot x 1 | Wallmount | 9~36V DC in | -4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM) |
| BOXER-6406-ADN-A3-1010 | Intel Atom® x7211E    | 2   | Intel SoC | 2             | 2       | 3              | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>2.5" SATA Drive Bay x 1 | HDMI x 2 | M.2 2280 M-Key x 1 (PCIe Gen 3 [x2])<br>M.2 2230 E-Key x 1<br>Full-Size Mini Card x 1 (PCIe + USB)<br>SIM Slot x 1 | Wallmount | 9~36V DC in | -4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM) |

## Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- 3 Pin DC-In Power Connector x 1
- BOXER-6406-ADN x 1

## Optional Accessories

- **1255900849**  
12V 84W Power Adapter
- **1702031802**  
Power Cord (US type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **9741EG25G0**  
4G Module & Antenna (for global)

## 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660