

# BOXER-6451-ADP

Fanless Compact Embedded Computer with 12th Generation Intel® Core™ Processors

Ultra Slim Fanless BOX PC Solutions

Front View



Rear View



## Features

- Compact Computer with 12th Gen Intel® Core™ Processors
- DDR4 SODIMM, Max. 32GB
- USB 3.2 Gen 2 x 3 (10Gbps) + USB 2.0 x 1
- 2.5GbE LAN x 1 (Intel® I226-LM) + GbE LAN x 1 (Intel® I219-LM)
- M.2 3052 B-Key for 5G Support
- Wide Operating Temperature
- Onboard TPM 2.0



## Specifications

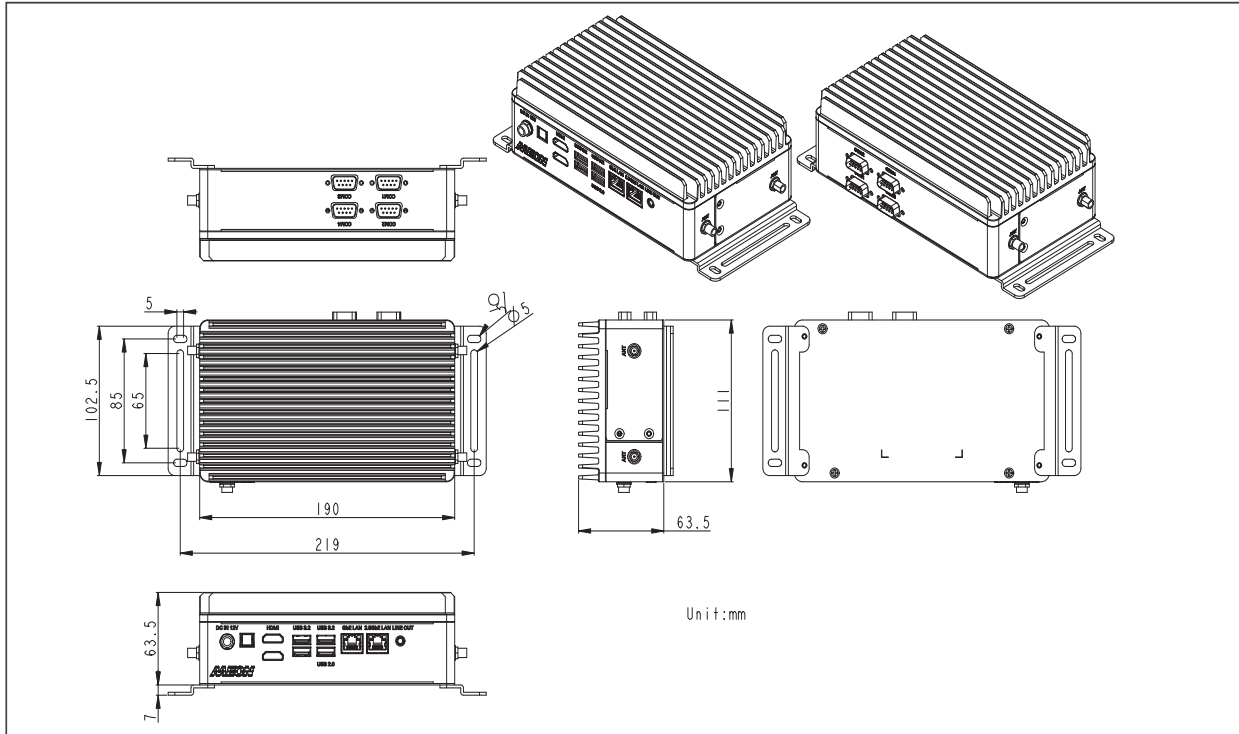
System	
CPU	Intel® Core™ i7-1265UE Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE
Chipset	Intel® SoC
System Memory	DDR4 SODIMM x 1, up to 32GB
Display Interface	HDMI 1.4b x 2 (Type-A)
Storage Device	2.5" SATA Drive Bay x 1 M.2 2280 M-Key x 1 (PCIe [x4])
Ethernet	RJ-45 x 1 for 2.5GbE (Intel® I226-LM) RJ-45 x 1 for GbE (Intel® I219-LM)
I/O	USB 3.2 Gen 2 x 3 (Type-A) USB 2.0 x 1 (Type-A) DB-9 x 4 for RS-232/422/485 HDMI 1.4b x 2 (Type-A) Power Button x 1 DC Jack 12V Input Antenna Opening x 6
Expansion	M.2 2230 E-Key x 1 (Wi-Fi/BT) M.2 3052 B-Key w/ SIM x 1 (LTE/5G) M.2 2280 M-Key x 1 (NVMe)
Indicator	Power Button with LED
OS support	Windows® 10 IoT Ent LTSC Windows® 11 PRO Ubuntu 22.04
Power Supply	
Power Requirement	DC-in 12V x 1 for Lockable DC Jack
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	7.68" x 4.37" x 2.5" (195mm x 111mm x 63.5mm) w/o bracket
Gross Weight	4.4 lb. (2Kg)
Net Weight	3.3 lb. (1.5Kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow with Wide Temperature Memory/Storage
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	SSD: Random, 3Grms, 5~500Hz
Anti-Shock	SSD: 50G @ wallmount, Half-sine, 11ms
Certification	CE/FCC Class A

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## Dimension Unit: mm



## Ordering Information

Part Number	CPU	PCH	LAN	USB 3.0	USB 2.0	RS-232/422/485	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6451-ADP-A1-1010	i3-1215UE	SoC	2	USB 3.2 x 3 (10Gbps)	1	4	Line-out	2.5" SATA Drive Bay x 1 M.2 2280 M-Key x 1 (NVMe)	HDMI x 2	M.2 2230 E-Key x 1 M.2 3052 B-Key w/ SIM Slot x 1	Wallmount	12V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage
BOXER-6451-ADP-A2-1010	i5-1245UE	SoC	2	USB 3.2 x 3 (10Gbps)	1	4	Line-out	2.5" SATA Drive Bay x 1 M.2 2280 M-Key x 1 (NVMe)	HDMI x 2	M.2 2230 E-Key x 1 M.2 3052 B-Key w/ SIM Slot x 1	Wallmount	12V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage
BOXER-6451-ADP-A3-1010	i7-1265UE	SoC	2	USB 3.2 x 3 (10Gbps)	1	4	Line-out	2.5" SATA Drive Bay x 1 M.2 2280 M-Key x 1 (NVMe)	HDMI x 2	M.2 2230 E-Key x 1 M.2 3052 B-Key w/ SIM Slot x 1	Wallmount	12V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage

## Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- 84W 12V Power Adapter
- BOXER-6451-ADP

## Optional Accessories

- **1702031802**  
Power Cord (US type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)

## 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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