

BOXER-6451-ADP PRELIMINARY

Fanless Compact Embedded Computer with 12th Generation (Alder Lake-P U15) Intel® Core™ Processor

Front View



Rear View



Features

- Compact size embedded computer with Intel® Core™ CPU
- DDR4 SODIMM, Max. 32GB
- USB 3.2 Gen2 (10Gbps) x 3 + USB 2.0 x 1
- Intel 2.5GbE LAN x 1 (i226-LM) + GbE LAN x 1 (i219-LM)
- Supports M.2 3052 B Key for 5G module
- Wide Operating Temperature
- TPM 2.0 onboard

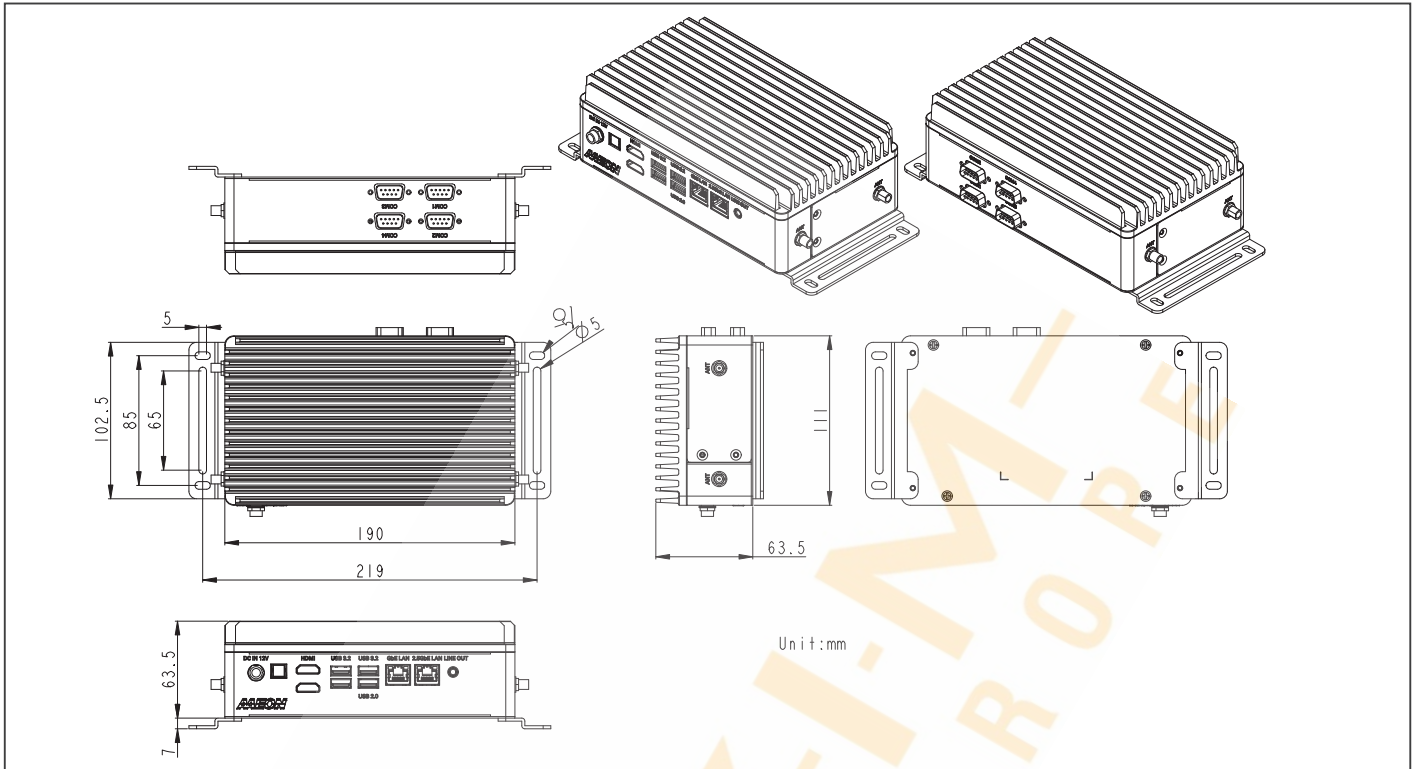


Specifications

System	
CPU	Intel® Core™ i7-1265UE Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE Intel® Celeron® 7305E
Chipset	Intel® SoC
System Memory	DDR4 SODIMM x1, up to 32GB
Display Interface	HDMI Type A x 2 for HDMI 1.4b
Storage Device	2.5" SATA-III Drive Bay x1 M.2 2280 M Key x1 (PCIEx4)
Ethernet	RJ-45 x 1 for 2.5GbE LAN i226-LM x 1 RJ-45 x 1 for GbE LAN i219-LM x 1
I/O	USB Type-A x 3 for USB3.2 Gen2 USB Type-A x 1 for USB 2.0 DB-9 x 4 for RS-232/422/485 HDMI x2 for HDMI 1.4b Power Button x 1 DC Jack 12V input Antenna opening x 6
Expansion	M.2 E-Key 2230 x1 (For WiFi/Bluetooth Module) M.2 B-Key 3052 x1 w/ SIM (For LTE/5G Module) M.2 M-Key 2280 NVMe x1
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" (195 mm x 111 mm x 63.5 mm) 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

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6451-ADP-A1-1010	i3-1215UE	SoC	3	USB 3.2 (10Gbps) x3	1	—	4	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	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	3	USB 3.2 (10Gbps) x3	1	—	4	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	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	3	USB 3.2 (10Gbps) x3	1	—	4	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	12V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage
BOXER-6451-ADP-A4-1010	Celeron® 7305E	SoC	3	USB 3.2 (10Gbps) x3	1	—	4	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	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 x2
- Screw Package x1
- 84W 12V Power Adapter
- BOXER-6451-ADP

Optional Accessories

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