

BOXER-6646-ADP

Fanless Compact Embedded Computer with 12 Generation Intel® Core™ i7/i5/i3 Processor

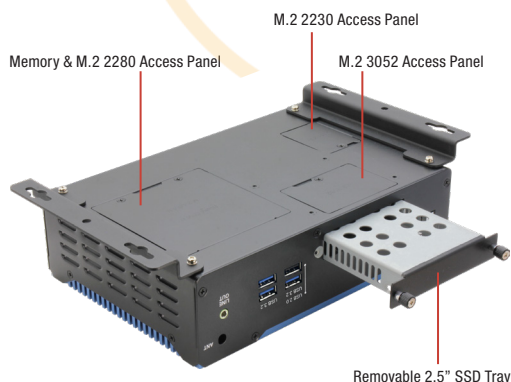
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Front View



Rear View



Features

- 12th Gen Intel® Core™ i7/i5/i3 Processor SoC
- Dual-Channel DDR5 SODIMM slot
- Support Multi-LAN including 2.5GbE Ethernet
- Support M.2 2280 M Key High speed NVMe SSD
- SuperSpeed+ USB 3.2 Gen2
- Wide Range 10~35V DC input
- Wide Operating Temperature -20~60°C
- Compact Size
- Onboard TPM 2.0



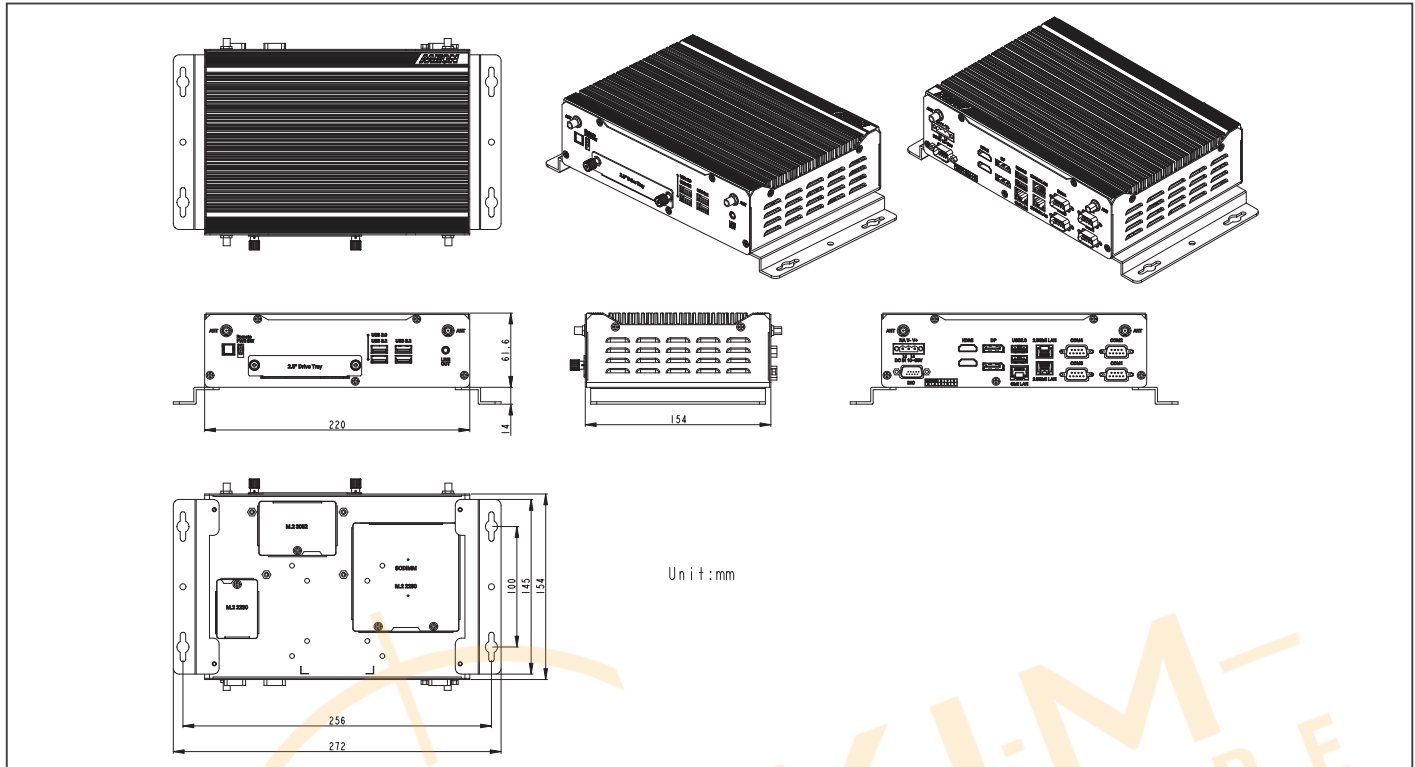
Specifications

System	
CPU	Intel® Core™ i7-1270PE Intel® Core™ i5-1250PE Intel® Core™ i3-1220PE
Chipset	Intel® System on Chip
System Memory	DDR5 SODIMM slot x 2
Display Interface	HDMI x2, Display Port x 2
Storage Device	Removable 2.5" SATA Drive Bay x 1 M.2 2280 M Key NVMe Slot x 1
Ethernet	RJ-45 x 2 for 2.5GbE LAN i225-LM x 2 RJ-45 x 1 for GbE LAN i219-LM x 1
I/O	USB Type-A x 3 for USB3.2 Gen2 (10Gbps) USB Type-A x 3 for USB 2.0 DB-9 x 4 for RS-232/422/485 Line out SMA Antenna Holes x 6 DB-9 for DIO 8 bit x 1 Power Button with LED indicator x 1 Remote Power on/off 2pin connector x 1
Expansion	M.2 E key 2230 x 1 M.2 B Key 3052 x 1 (for 5G/LTE module)
Indicator	System Power LED x 1
OS support	Windows® 10 IoT Ent LTSC, Windows® 11 PRO, Ubuntu 22.04
Power Supply	
Power Requirement	DC-in 10~35V in 3pin Terminal block connector
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	8.66" x 6.06" x 2.42" (220 mm x 154 mm x 61.6 mm)
Gross Weight	6.6 lbs. (3.0 kg)
Net Weight	4.9 lbs. (2.2 kg)
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

Note: All specifications are subject to change without notice.

Dimension

Unit: mm

**Ordering Information**

Part Number	CPU	PCH	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Power
BOXER-6646-ADP-A1-1010	i3-1220PE	SoC	3	USB 3.2 (10Gbps) x3	3	—	4	8bit	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	10~35V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage
BOXER-6646-ADP-A2-1010	i5-1250PE	SoC	3	USB 3.2 (10Gbps) x3	3	—	4	8bit	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	10~35V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage
BOXER-6646-ADP-A3-1010	i7-1270PE	SoC	3	USB 3.2 (10Gbps) x3	3	—	4	8bit	Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 M Key NVMe Slot x 1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	10~35V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow, with wide temperature Memory/Storage

Packing List

- BOXER-6646-ADP x1
- Wallmount Bracket x 2
- 3 Pin DC-In Power Connector x 1
- Remote ON/OFF Connector x 1
- Screw Package x 1

Optional Accessories

- 125590120B
19V 120W AC to DC Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)
- PN by request
Wide Temp. M.2 2280 NVMe PCIe Gen4x4 SSD with
heatsink (256G/512G/1T/2T)

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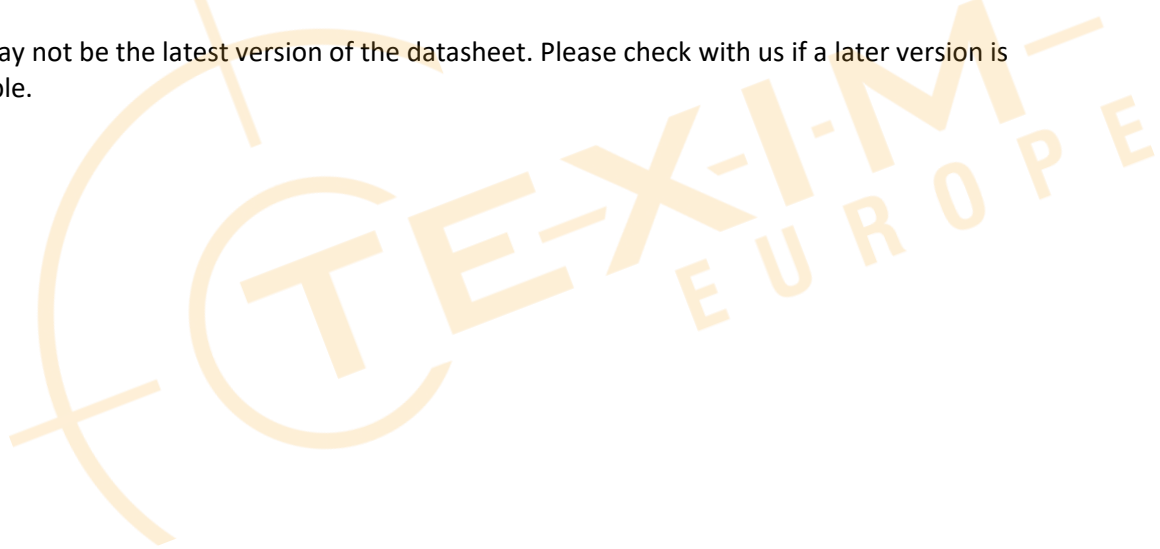
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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