

BOXER-6646-ADP

Fanless and compact embedded computer with 12th Gen. Intel® Core™ i7/i5/i3 CPU

Features

- 12th Gen. Intel® Core™ i7/i5/i3 processor SoC
- Dual-channel DDR5 SO-DIMM slot
- Supports multi-LAN including 2.5 GbE Ethernet
- Supports M.2 2280 M Key high speed NVMe SSD
- SuperSpeed+ USB 3.2 Gen 2
- Wide range 10~35V DC input
- Wide operating temperature -20°C to 60°C
- Compact size
- Onboard TPM 2.0

System

CPU	Intel® Core™ i7-1270PE
	Intel® Core™ i5-1250PE
	Intel® Core™ i3-1220PE

Chipset	Intel® System on Chip
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RAM	2x DDR5 SO-DIMM slot
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Storage Capacity	Removable 2.5" SATA drive bay M.2 2280 M Key NVMe slot
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OS support	Windows® 10 IoT Ent LTSC Windows® 11 PRO Ubuntu 22.04
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I/O

USB	3x USB 3.2 Gen 2 (10Gbps) - USB Type A 3x USB 2.0 - USB Type A
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Ethernet	4x RJ-45 for 2.5GbE LAN i225-LM 1x RJ-45 for GbE LAN i219-LM
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Serial Ports	4x DB-9 for RS-232/422/485 1x DB-9 for DIO 8-bit
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Video	2x HDMI 2x DisplayPort
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Audio	1x Line-out
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Others	6x SMA antenna holes 1x Power button (& Power LED) 1x Remote power on/off 2pin connector
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Expansion Slots	1x M.2 E Key 2230 1x M.2 B Key 3052 (for 5G/LTE module)
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Mechanical

DC Input	DC-in 10~35V in 3pin Terminal block connector
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Dimensions	220 mm (W) x 154 mm (H) x 61.6 mm (D)
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Weight	3kg (gross weight) // 2.2kg (net weight)
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Mounting	Wall-mount
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Front



Rear

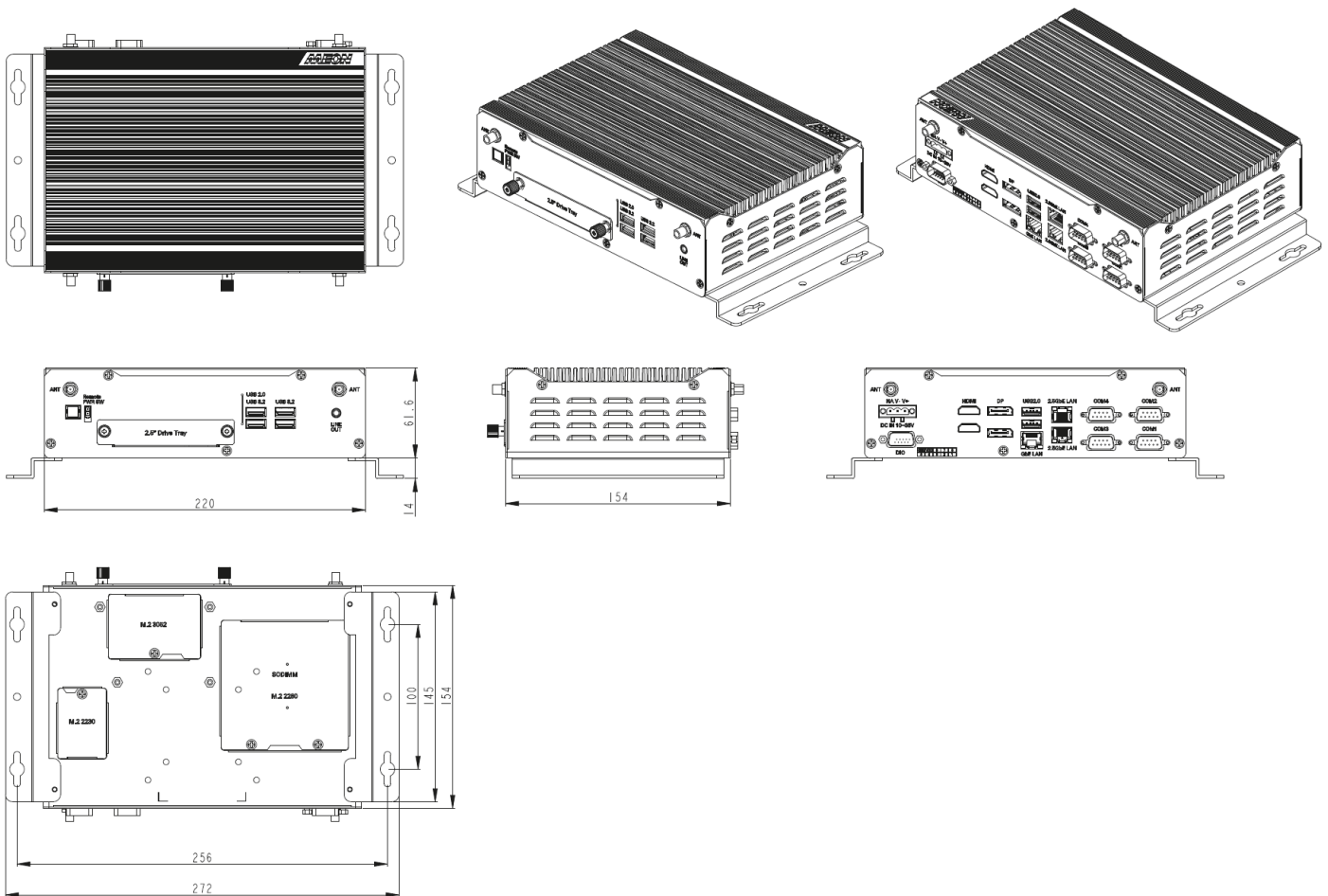


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Environmental

Operating temperature	-20C to 60°C, IEC68-2 with 0.5 m/s AirFlow, with wide temperature memory/storage
Storage temperature	-40°C ~ 80°C
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Vibration	SSD: Random, 3 Grms/ 5 ~ 500Hz
Shock	SSD: 50G @ Wall-mount, half-sine, 11ms
Certification	CE/FCC Class A

Dimensions (mm)



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Ordering information

Models	CPU	PCH	LAN	USB 3.0	USB 2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6646-ADP-A1-1010	i3-1220PE	Soc	3x	3x USB 3.2 (10 Gbps)	3x	4x	8bit	1x Line-out	1x 2.5" SATA-III Drive bay 1x M.2 2280 M Key NVMe slot	2x HDMI 2x DP	1x M.2 E Key 2230 1x M.2 B Key 3052 w/ SIM slot	Wall-mount	10-35V	-20°C-60°C, with 0.5 m/s airflow, with wide temperature memory/storage
BOXER-6646-ADP-A2-1010	i5-1250PE	Soc	3x	3x USB 3.2 (10 Gbps)	3x	4x	8bit	1x Line-out	1x 2.5" SATA-III Drive bay 1x M.2 2280 M Key NVMe slot	2x HDMI 2x DP	1x M.2 E Key 2230 1x M.2 B Key 3052 w/ SIM slot	Wall-mount	10-35V	-20°C-60°C, with 0.5 m/s airflow, with wide temperature memory/storage
BOXER-6646-ADP-A3-1010	i7-1270PE	Soc	3x	3x USB 3.2 (10 Gbps)	3x	4x	8bit	1x Line-out	1x 2.5" SATA-III Drive bay 1x M.2 2280 M Key	2x HDMI 2x DP	1x M.2 E Key 2230 1x M.2 B Key	Wall-mount	10-35V	-20°C-60°C, with 0.5 m/s airflow, with wide temperature

Packing list

- **BOXER-6646-ADP**
- **2x Wall-mount kit**
- **1x Screw pack**
- **1x 3-pin terminal block connector (for DC input)**

Optional accessories

- **125590120B**
19V 120W AC to DC adapter
- **17020231802**
Power cord (US type)
- **1702031803**
Power cord (European type)
- **170203180E**
Power cord (Japan type)
- **PN by request**
Wide temp. M.2 2880 NVMe PCIe Gen4x4 SSD with heatsink (256G/512G/1T/2T)