

BOXER-6646-ADP

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

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 9~36V DC input
- Wide Operating Temperature -20~60°C
- Compact Size

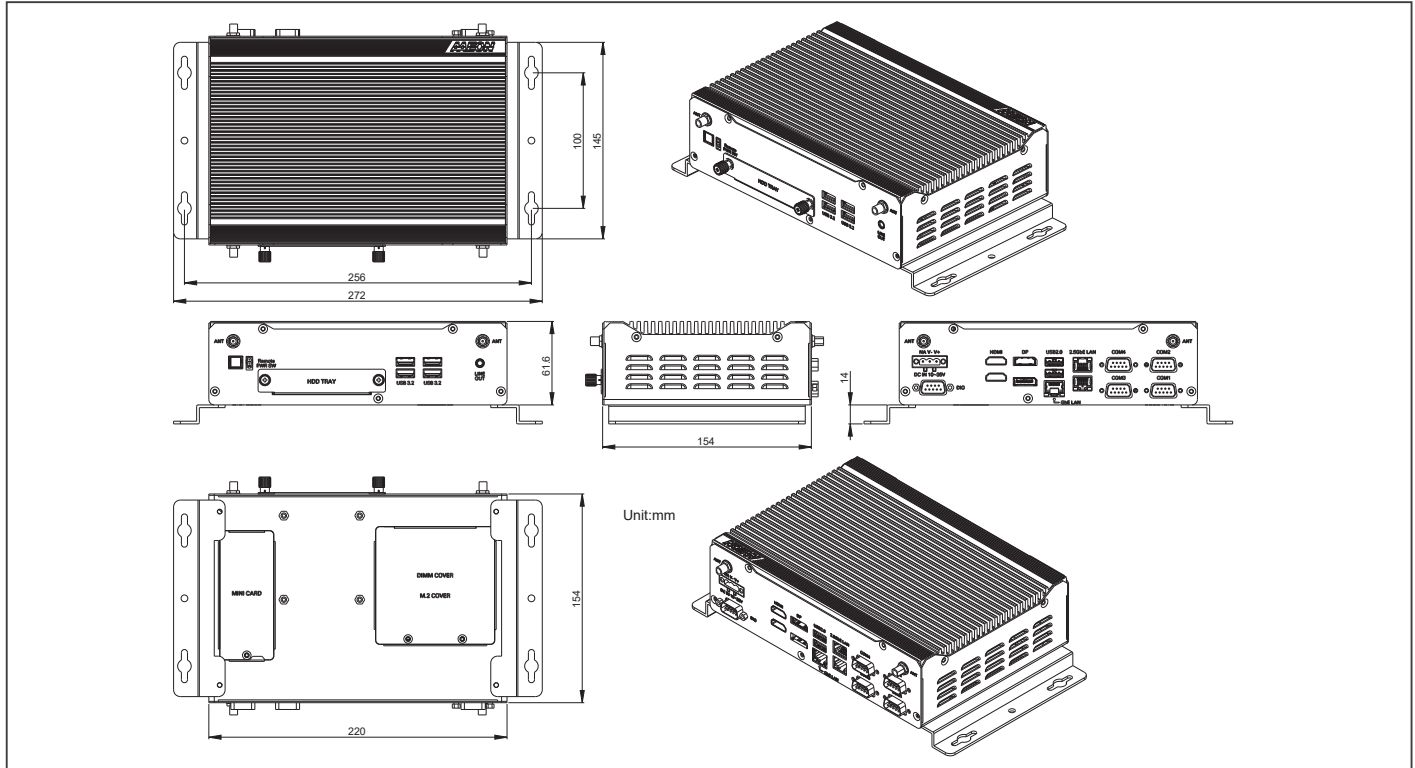


Specifications

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 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 Mic in / Line out SMA Antenna Holes x 4 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 module)
Indicator	System Power LED x 1
OS support	Windows® 10, Windows® 11, Ubuntu 20.04.3
Power Supply	
Power Requirement	DC-in 9~36V 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	TBD
Net Weight	TBD
Environmental	
Operating Temperature	-4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow
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	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	Mic-in Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 slot for NVMe SSD x1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	9~36V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow
BOXER-6646-ADP-A2-1010	i5-1250PE	SoC	3	USB 3.2 (10Gbps) x3	3	—	4	8bit	Mic-in Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 slot for NVMe SSD x1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	9~36V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow
BOXER-6646-ADP-A3-1010	i7-1270PE	SoC	3	USB 3.2 (10Gbps) x3	3	—	4	8bit	Mic-in Line-out	2.5" SATA-III Drive bay x 1 M.2 2280 slot for NVMe SSD x1	HDMI x 2 DP x 2	M.2 E-Key 2230 x1 M.2 B-Key 3052 x1 w/ SIM Slot x1	Wallmount	9~36V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow

Packing List

- BOXER-6646-ADP x 1
- Wallmount Kit x 1
- Screw Pack x 1
- 3pin Terminal Block connnecor x 1 (for DC input)

Optional Accessories

- 120W AC to DC Power Adapter
- DDR5 SODIMM Memory
- 2.5" SSD / M.2 NVMe SSD
- WiFi / LTE module