

BOXER-6645-ADS

Fanless Embedded Box PC with Socket Type 12th Generation Intel® Processor

Front View



Rear View



Features

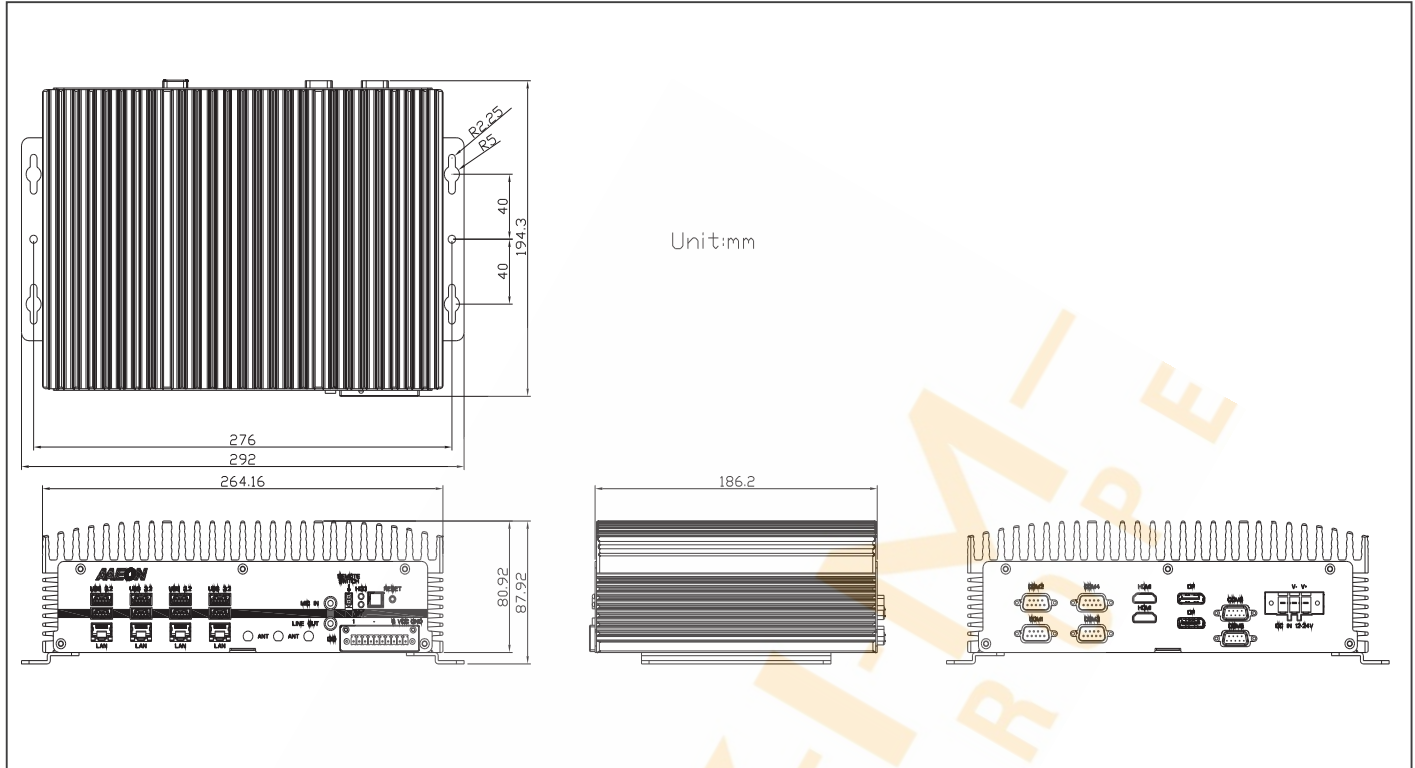
- Intel 12th Gen Desktop Processor
- Built-in high performance Intel Iris Xe Graphic Engine
- Dual-Channel DDR5 SODIMM, Total max. 64GB
- Support Quadruple Independent Display (HDMI x 2, DP x 2)
- Support SuperSpeed+ USB3.2 Gen2 10Gbps x 8 (A2)
- Support M.2 3052 for 5G Module
- Support Quadruple LAN (GbE x 3, 2.5GbEx1), vPRO and iAMT
- Support Windows 11, TPM, DirectX 12

Specifications

System	
CPU	i9-12900E i7-12700TE i7-12700E i5-12500TE i5-12500E i3-12100TE i3-12100E G6900TE G6900E
Chipset	Intel H610E/Q670E
System Memory	DDR5 4800MHz Slot x2, max up to 64GB
Display Interface	HDMI Type A x2 for HDMI 1.4b DisplayPort x2 for DP1.4a
Storage Device	2.5" SATA-III Drive Bay x 2 (A2 sku supports RAID 0/1) M.2 2280 M key for NVMe SSD x 1
Ethernet	Intel® I210AT, 10/100/1000 Base-TX x 2 Intel® I219LM, 10/100/1000 Base-TX x 1 Intel® I225LM, 10/100/1000 Base-TX x 1
I/O	USB 3.2 Gen2 5Gbps x 4 (A1 sku) USB 3.2 Gen2 10Gbps x 8 (A2 sku) USB2.0 x 4 (A1 sku) Audio x 1 (MIC-in, Line-out) DB-9 x 6 for RS-232/422/485 SMA Antenna Hole x6 DIO x 8
Expansion	M.2 2230 E-Key x 1 for WiFi module M.2 3052 B-Key x 1 for 4G / 5G module
Indicator	System LED x 1 HDD LED x 1
OS support	Windows® 10 64-bit Windows® 11 64-bit Linux Ubuntu 21.04
Power Supply	
Power Requirement	3-pin DC Input 12~24V
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.39" x 3.8" x 7.33" (264mm x 80.92mm x 186.2mm)
Gross Weight	10.4 lb (4.7 kg)
Net Weight	8.2 lb (3.7 kg)
Environmental	
Operating Temperature	-4 F ~140°F (-20°C ~ 60°C) for TDP 35W CPU, IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory / Storage. -4 F ~122°F (-20°C ~ 50°C) for TDP 65W CPU, 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	3 Grms/ 5 ~ 500Hz/ operation – SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock	50G, IEC68-2-27, half sine, 11ms duration (with SSD)
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	PCH	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6645-ADS-A1-1010	H610E	4	USB 3.2 (5Gbps) x4	4	—	6	8 bit	Mic-in Line-out	2.5" SATA-III Drive bay x 2 M.2 2280 M Key for NVMe SSD 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	12~24V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow — with TDP 35W CPU -4°F ~ 122°F (-20°C ~ 50°C) with 0.5 m/s airflow — with TDP 65W CPU
BOXER-6645-ADS-A2-1010	Q670E	4	USB 3.2 (10Gbps) x8	—	—	6	8 bit	Mic-in Line-out	2.5" SATA-III Drive bay x 2(RAID 0/1) M.2 2280 M Key for NVMe SSD 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	12~24V	-4°F ~ 140°F (-20°C ~ 60°C) with 0.5 m/s airflow — with TDP 35W CPU -4°F ~ 122°F (-20°C ~ 50°C) with 0.5 m/s airflow — with TDP 65W CPU

Packing List

- BOXER-6645-ADS 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

- **TBD**
180W Power Adapter (Recommand for A1 Model)
- **1255302300**
230W Power Adapter (Recommand for A2 Model)
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)

