

BOXER-6645-ADS

Fanless Embedded Box PC with socket type 12th Generation Intel® Core processor

Features

- Intel® Core 12th Generation desktop processor
- Built-in high performance Intel® Iris Xe graphic engine
- Dual-channel DDR5 SODIMM (total max. 64GB)
- Supports quadruple independent display (2x HDMI, 2x DP)
- Supports SuperSpeed+ 8x USB3.2 Gen2
- Supports M.2 3052 with USB3.2 for 5G module
- Supports Quadruple LAN (3x GbE , 2.5GbEx1), vPRO and iAMT
- Supports Windows 11, TPM, DirectX 12
- 20°C to 55°C wide-temperature operation

System

CPU	Intel® Core 12th Generation desktop processor
	- i9-12900TE
	- i9-12900E
	- i7-12700TE
	- i7-12700E
	- i5-12500TE
	- i5-12500E
	- i3-12100TE
	- i3-12100E
	- G6900TE
- G6900E	

Chipset	Intel® H610E/Q670E
RAM	2x DDR5 4800MHz up to 64GB
Storage Capacity	2x 2.5" SATA-III Drive Bay (BOXER-6645-ADS-A2 supports RAID 0/1) 1x M.2 2280 M Key
OS support	Windows® 10 64-bit Windows® 11 64-bit Linux Ubuntu 21.04

I/O

USB	4x USB 3.2 Gen 1x1 (5G) (only BOXER-6645-ADS-A1) 8x USB 3.2 Gen 2x1 (10G) (only BOXER-6645-ADS-A2) 4x USB 2.0 (only BOXER-6645-ADS-A1)
Ethernet	2x Intel® I210AT, 10/100/1000 Base-TX 1x Intel® I219LM, 10/100/1000 Base-TX 1x Intel® I225LM, 10/100/1000 Base-TX
Serial Ports	6x DB-9 for RS-232/422/485
Video	2x HDMI Type A for HDMI 1.4b 2x DisplayPort for DP1.4a"
Audio	1x mic-in and line-out
Expansion Slots	1x M.2 E-Key 2230 1x M.2 B-Key 3052 1x M.2 2280 NVMe
Other	6x SMA Antenna Hole 8x DIO

Mechanical & Environment

DC Input	3-pin DC Input 12~24V
Dimensions	264 mm (W) x 80.92 mm (D) x 186.2 mm (H)
Weight	4.7kg (gross weight) // 3.7kg (net weight)
Mounting	Wall-mount
Operating temperature	-25°C to 55°C, IEC68-2 with 0.5 m/s AirFlow
Storage temperature	-40°C ~ 80°C
Humidity	5%~95% @ 40°C, non-condensing
Vibration	3 Grms/ 5 ~ 500Hz/ operation – SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Shock	50G, IEC68-2-27, half sine, 11ms duration (with SSD)
Certification	CE/FCC Class A

Front

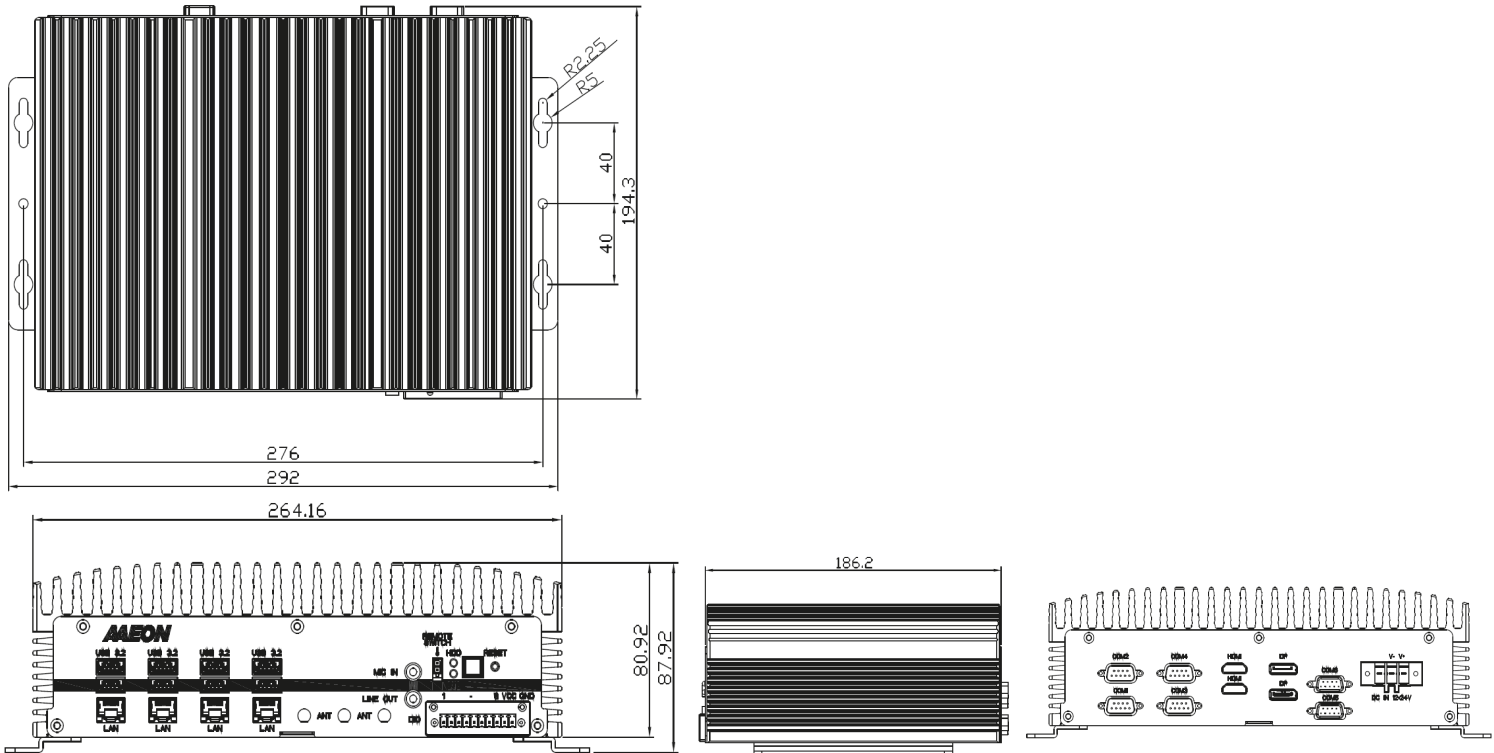


Rear



BOXER-6645-ADS

Dimensions (mm)



Ordering information

Models	PCH	LAN	USB 3.0	USB 2.0	RS-232 / 422 / 485	Audio	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6645-ADS-A1-1010	H610E	4x	4x USB 3.2 (5Gbps)	4x	6x	1x Mic-in & Line-out	2x 2.5" SATA-III Drive bay 1x NVMe	2x HDMI 2x DP	1x M.2 E-Key 2230 1x M.2 B-Key 3052 1x w/ SIM Slot	Wall-mount	12-24V	-20°C-55°C with 0.5 m/s airflow - with TDP ≤ 35W CPU -20°C-45°C with 0.5 m/s airflow - with TDP > 35W CPU
BOXER-6645-ADS-A2-1010	Q670E	4x	8x USB 3.2 (10Gbps)	/	6x	1x Mic-in & Line-out	2x 2.5" SATA-III Drive bay (RAID 0/1) 1x NVMe	2x HDMI 2x DP	1x M.2 E-Key 2230 1x M.2 B-Key 3052 1x w/ SIM Slot	Wall-mount	12-24V	-20°C-55°C with 0.5 m/s airflow - with TDP ≤ 35W CPU -20°C-45°C with 0.5 m/s airflow - with TDP > 35W CPU

Packing list

- 2x Wall-mount bracket
- 1x 3 Pin DC-in power connector
- 1x Screw package
- 1x Remote ON/OFF connector
- BOXER-6645-ADS

Optional accessories

- **125590120B**
120W power adapter
- **1255302300**
230W power adapter
- **1702031802**
Power cord (US type)
- **1702031803**
Power cord (European type)
- **170203180E**
Power cord (Japanese Type)