

BOXER-6645-ADS

Fanless Embedded Box PC with Socket Type 12th/13th Generation Intel® Core™ Processors

Front View



Rear View



Distributed by:



Features

- 12th/13th Gen Intel® Core™ Desktop Processors
- Built-in high performance Intel® UHD Graphic Engine
- Dual-Channel DDR5 SODIMM, Max. 64GB
- Four Independent Displays (A2 Model)
- SuperSpeed+ USB 3.2 Gen 2 (10Gbps) x 8 (A2 Model)
- M.2 3052 B-Key for 5G Module
- Quadruple LAN (GbE x 3, 2.5GbE x 1)
- Onboard TPM 2.0
- Hailo-8™ M.2 2280 AI Accelerator Module Support (Optional)

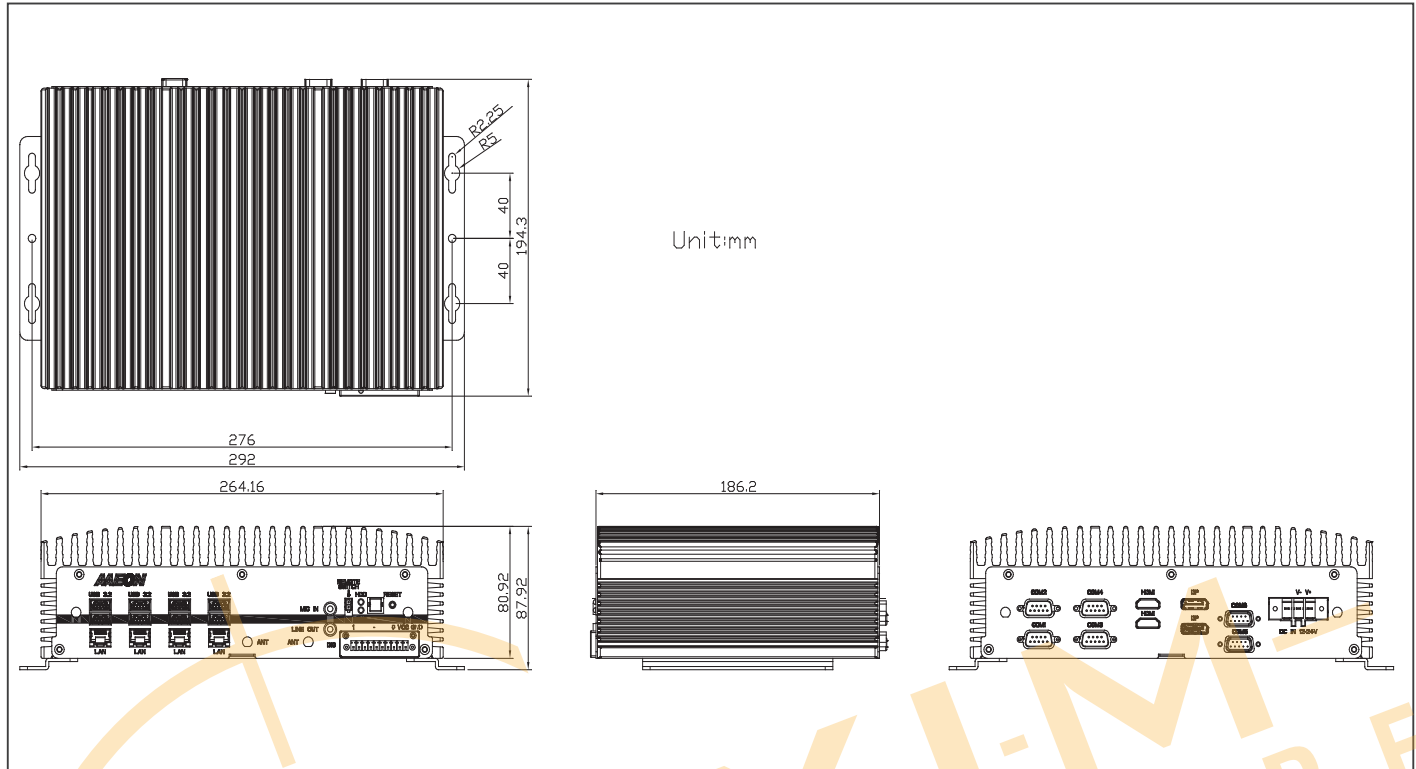


Specifications

System	
CPU	13th Generation Intel® Core™ Processors: Intel® Core™ i9-13900TE, Intel® Core™ i9-13900E, Intel® Core™ i7-13700TE, Intel® Core™ i7-13700E, Intel® Core™ i5-13500TE, Intel® Core™ i5-13500E, Intel® Core™ i3-13100TE, Intel® Core™ i3-13100E
Chipset	12th Generation Intel® Core™/Celeron® Processors: Intel® Core™ i9-12900E, Intel® Core™ i7-12700E, Intel® Core™ i5-12500E, Intel® Core™ i3-12100E, Intel® Celeron® Processor G6900TE, Intel® Celeron® Processor G6900E
System Memory	DDR5 4800MHz SODIMM x 2, up to 64GB
Display Interface	HDMI 1.4b (Type-A) x 2 DP 1.4a x 2 *A2 model supports four simultaneous display outputs *A1 model supports three simultaneous display outputs
Storage Device	2.5" SATA 6Gb/s Drive Bay x 2 (A2 SKU supports RAID 0, 1) M.2 2280 M-Key x 1 (NVMe, extra heatsink required, refer to optional accessories) (A2 Model)
Ethernet	Intel® I210-AT, 10/100/1000 Base-TX x 2 Intel® I219-LM, 10/100/1000 Base-TX x 1 Intel® I226-LM, 2.5GbE Base-TX x 1
I/O	USB 3.2 Gen 2 (5Gbps) x 4 (A1 Model) USB 3.2 Gen 2 (10Gbps) x 8 (A2 Model) USB 2.0 x 4 (A1 Model) Audio x 1 (MIC-in, Line-out) DB-9 x 6 for RS-232/422/485 SMA Antenna Hole x 6 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 IoT Enterprise 64-bit Windows® 11 PRO 64-bit Linux Ubuntu 20.04 (Kernel 15.5 or above)
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	11.7 lb (5.3 kg)
Net Weight	9.5 lb (4.3 kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature memory/storage (TDP 65W CPU) -4°F ~ 140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature memory (Max. 32GB)/Storage (TDP 35W CPU)
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-A1-1110	Intel® H610E	4	USB 3.2 (5Gbps) x 4	4	—	6	8 bit	Mic-in Line-out	2.5" SATA 6Gb/s Drive Bay x 2	HDMI x 2 DP x 2	M.2 2230 E-Key x 1 M.2 3052 B-Key x 1 w/ SIM Slot	Wallmount	12~24V	-4°F ~122°F (-20°C ~ 50°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory / Storage & TDP 65W CPU. -4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory (Max. 32G)/ Storage & TDP 35W CPU
BOXER-6645-ADS-A2-1110	Intel® Q670E	4	USB 3.2 (10Gbps) x 8	—	—	6	8 bit	Mic-in Line-out	2.5" SATA 6Gb/s Drive Bay x 2 (RAID 0, 1) M.2 2280 M-Key x 1 (NVMe)	HDMI x 2 DP x 2	M.2 2230 E-Key x 1 M.2 3052 B-Key x 1 w/ SIM Slot	Wallmount	12~24V	-4°F ~122°F (-20°C ~ 50°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory / Storage & TDP 65W CPU. -4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory (Max. 32G)/ Storage & TDP 35W 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

- **1255X00070**
180W Power Adapter (Recommended for 35W CPU)
- **170X000799**
Power Cord (US Type)
- **170X000800**
Power Cord (Europe)
- **170X000803**
Power Cord (Japan)
- **1255903300**
330W Power Adapter (Recommended for 65W CPU)
- **9C3256G007**
M.2 2280 M Key 256GB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS256GMTE710T-I
- **9C3512G006**
M.2 2280 M Key 512GB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS512GMTE710T-I
- **9C2001T007**
M.2 2280 M Key 1TB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS1TMTE710T-I
- **9C3002T002**
M.2 2280 M Key 2TB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS2TMTE710T-I
- **9641664500**
Heatsink pack for above PCIe Gen4x4 M.2 2280 NVMe SSD models

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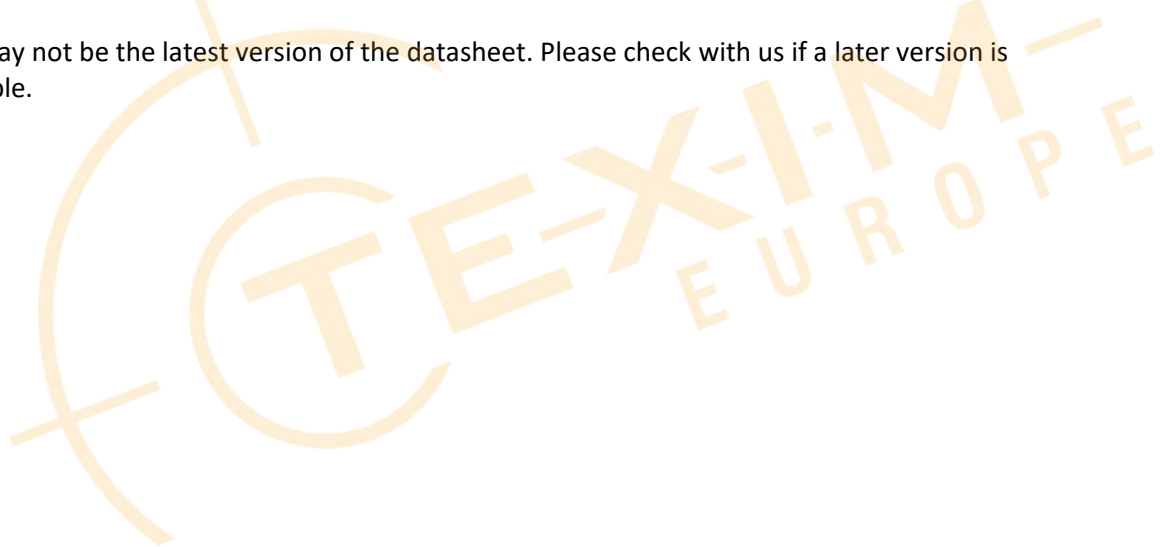
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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