



BOXER-6843-ADS

Fanless Embedded Controller with 12th/13th/14th Generation Intel® Core™/Celeron® Processor G Series

Front View



Rear View



Distributed by:



Features

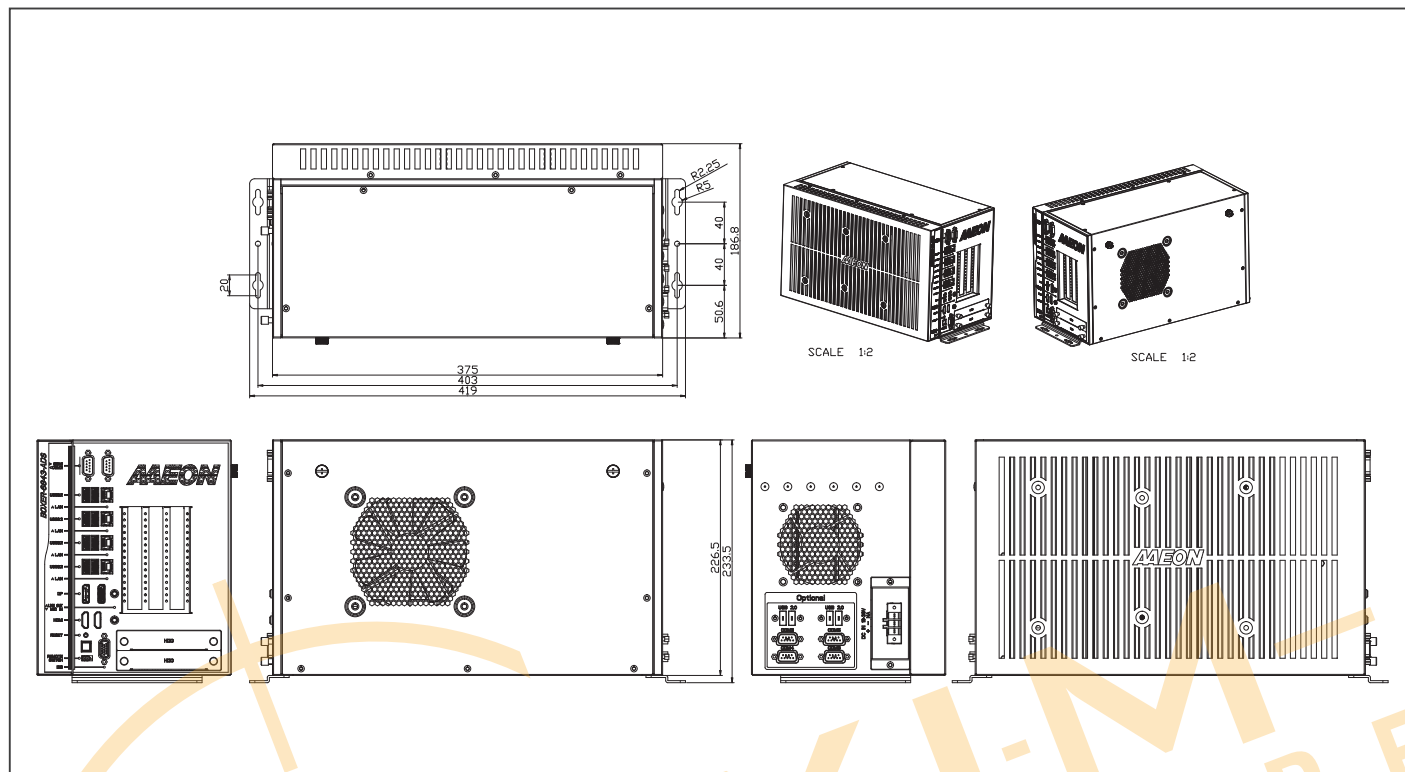
- 12th/13th/14th Generation Intel® Core™/Celeron® Processor G Serie
- DDR5 U-DIMM x 4
- HDMI x 2 + DP x 2
- PCIe [x16] + PCIe [x4] or Dual PCIe [x8] (in [x16] slot) + PCIe [x4]
- Supports Dual Graphics Cards with Dual Power Inputs
- Support NVIDIA L4



Specifications

System	
CPU	12th Generation Intel® Core™, TDP Max. 65W Intel® Core™ i9-12900TE/i9-12900E Intel® Core™ i7-12700TE/i7-12700E Intel® Core™ i5-12500TE/i5-12500E Intel® Core™ i3-12100TE/i3-12100E 13th Generation Intel® Core™, TDP Max. 65W Intel® Core™ i9-13900TE/i9-13900E Intel® Core™ i7-13700E Intel® Core™ i5-13500E Intel® Core™ i3-13100TE 14th Generation Intel® Core™, TDP Max. 65W Intel® Core™ i9-14900/i9-14900T Intel® Core™ i7-14700/i7-14700T Intel® Core™ i5-14500 Intel® Core™ i3-14100/i3-14100T
Chipset	Q670E
System Memory	DDR5 4800Mhz U-DIMM x 4, up to 128GB
Display Interface	HDMI x 2 (Type-A) Display Port x 2
Storage Device	2.5" SATA Drive Bay x 2 (external, swappable) M.2 2280 M-Key x 2 (PCIe Gen 4 [x4]) 3.5" SATA Drive Bay (internal, non-swappable, optional)
Ethernet	2.5GbE x 3 (Intel® I226-IT) GbE x 1 with LED Indicator (Intel® I219-LM)
I/O	HDMI x 2, Display Port x 2 RJ-45 x 4 3.2 Gen 2 x 8 (Type-A) DB-9 Male x 6 for RS-232/422/485 (Autoflow, Programmable) DB-15 Male x 1 for 8-bit DIO Audio (Mic-in/Line-out) DC 19 ~ 36V 3-pin Terminal Block Connector Power Button with LED x 1 Remote Power On/Off x 1 Reset Button x 1
Expansion	M.2 2230 E-Key x 1 M.2 3052 B-Key w/SIM x 1 M.2 2280 M-Key/B+M-Key x 2 Full-Size Mini Card x 1 (PCIe + USB) A1: PCIe [x4] x 1 + PCIe [x16] x 1 A2: PCIe [x4] x 1 + PCIe [x8] (in x16 slot) x 2 Max. Power Consumption of GPU card 300W Max. Size of GPU card 305mm x 120mm x 50mm
Indicator	—
OS Support	Windows® 10 IoT Enterprise LTSC 2021 Windows® 11 Pro Linux Ubuntu 22.04
Power Supply	
Power Requirement	DC 19~36V 3-pin Terminal Block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	7.35" x 8.92" x 14.76" (186.8 x 226.5 x 375 mm)(Without brackets) 7.35" x 9.19" x 16.50" (186.8 x 233.5 x 419 mm)(With brackets)
Gross Weight	20.9 lb (9.5Kg)
Net Weight	18.1 lb (8.2 Kg)
Environmental	
Operating Temperature	-4°F ~ 113°F (-20°C ~ 45°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
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 (with SSD)
Anti-Shock	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)
Certification	CE/FCC Class A

Note: All specifications are subject to change without notice.



Part Number	CPU	PCH	LAN	FAN	Graphic Card	USB	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp
BOXER-6843-ADS-A1-1010	—	Q670E	4	Fan	—	USB 3.2 Gen 2 x 8	6	8-bit	Mic-in Line-out x 1	2.5" SATA Drive bay x 2 M.2 2280 NVMe SSD slot x 2	HDMI x 2 DP x 2	Full-Size Mini Card x 1 M.2 2230 E-Key x 1 M.2 3052 B-Key w/SIM x 1 PCIe [x4] x 1, PCIe [x16] x 1	Wallmount	DC In 19~36V with 3-pin terminal block	-20°C ~ 45°C with 0.5m/s airflow
BOXER-6843-ADS-A2-1010	—	Q670E	4	Fan	—	USB 3.2 Gen 2 x 8	6	8-bit	Mic-in Line-out x 1	2.5" SATA Drive bay x 2 M.2 2280 NVMe SSD slot x 2	HDMI x 2 DP x 2	Full-Size Mini Card x 1 M.2 2230 E-Key x 1 M.2 3052 B-Key w/SIM x 1 PCIe [x4] x 1, PCIe [x8] x 2 (in [x16] slot)	Wallmount	DC In 19~36V with 3-pin terminal block	-20°C ~ 45°C with 0.5m/s airflow

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6843-ADS

- **1255903300**
330W Power Adapter
- **1255X00021**
480W Power Adapter (DIN Rail)
- **170X000799**
Power Cord (US type)
- **170X000800**
Power Cord (European Type)
- **170X000803**
Power Cord (Japanese Type)
- **9741364A00**
WiFi Module & Antenna
- **9741EG25G0**
4G Module & Antenna (for global)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **9651500Q00**
5G Module & Antenna (for USA & EMEA, Asia)

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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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