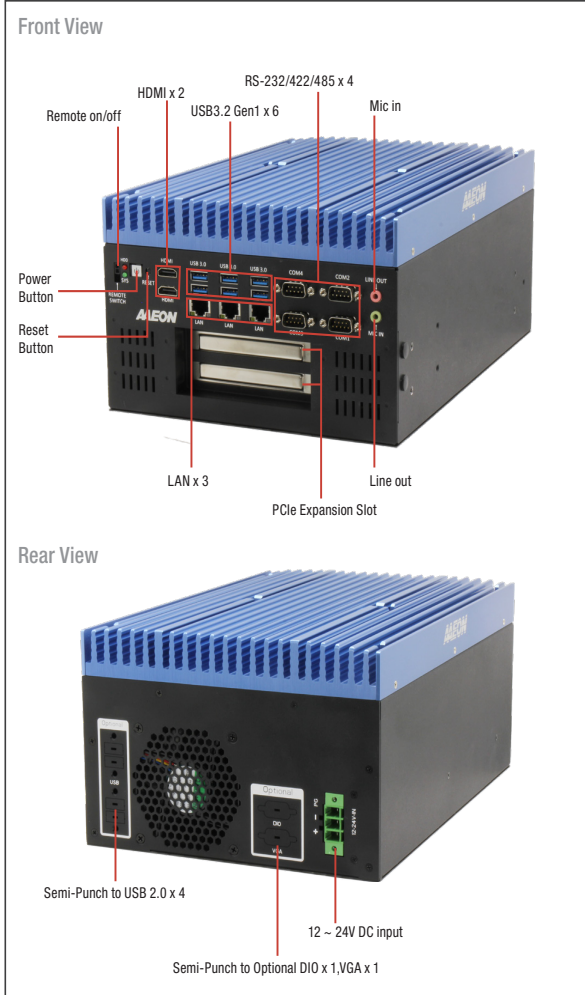


# BOXER-6840-CFL

High Computing Power Embedded Controller with 8th/9th Generation Intel® Processor

Expandable Fanless BOX PC Solutions



## Features

- High Computing Power
- Intel Coffee Lake-S LGA 1151 Desktop Processor
- HDMI x2 for Dual Display
- Support C246 PCH
- Support PCIe16 + PCIe4
- Single Power Input (for both System & one Graphics Card)



Expansion	Full-size Minicard x1 (PCIe + USB with 1 SIM Slot) Half-size Minicard x1 (PCIe + USB, optional for mSATA) M.2 M key (2280) x1 (PCIe4) PCIe [x4] x1 PCIe [x16] x1 - Max. Power Consumption of GPU card 250W - Max. Size of GPU card 250mm x 125mm x 20mm Note: If the GPU card dimension is 250mm x 125mm x 40mm, we can change the riser card inside to support.
Reserved Connector	Internal, SATA x 2; Internal, 8bit DIO x 1; Internal, USB 2.0 x 4; Internal, LPC x 1; Internal, Secondary System Fan Connector x 1
Indicator	System Power LED x1 (Green) Storage Active LED x1 (Red)
OS Support	Windows® 10 Enterprise 64 bit Ubuntu 20.04.1/Kernel 5.4
<b>Power Supply</b>	
Power Requirement	DC In 12~24V x1 for 3-pin Terminal block
<b>Mechanical</b>	
Mounting	Wallmount
Dimensions (W x H x D)	8.66" x 5.91" x 12.6" (220 mm x 150 mm x 320 mm)
Gross Weight	17.64 lb (8 kg)
Net Weight	15.43 lb (7 kg)
<b>Environmental</b>	
Operating Temperature	-4°F~140°F (-20°C ~ 60°C) IEC68-2 with 0.5 m/s AirFlow
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	SSD: Random, 1Grm, 5~500Hz
Anti - Shock	SSD: 50G @ wallmount, Half-sine, 11ms
Certification	CE/FCC class A , UKCA

## Specifications

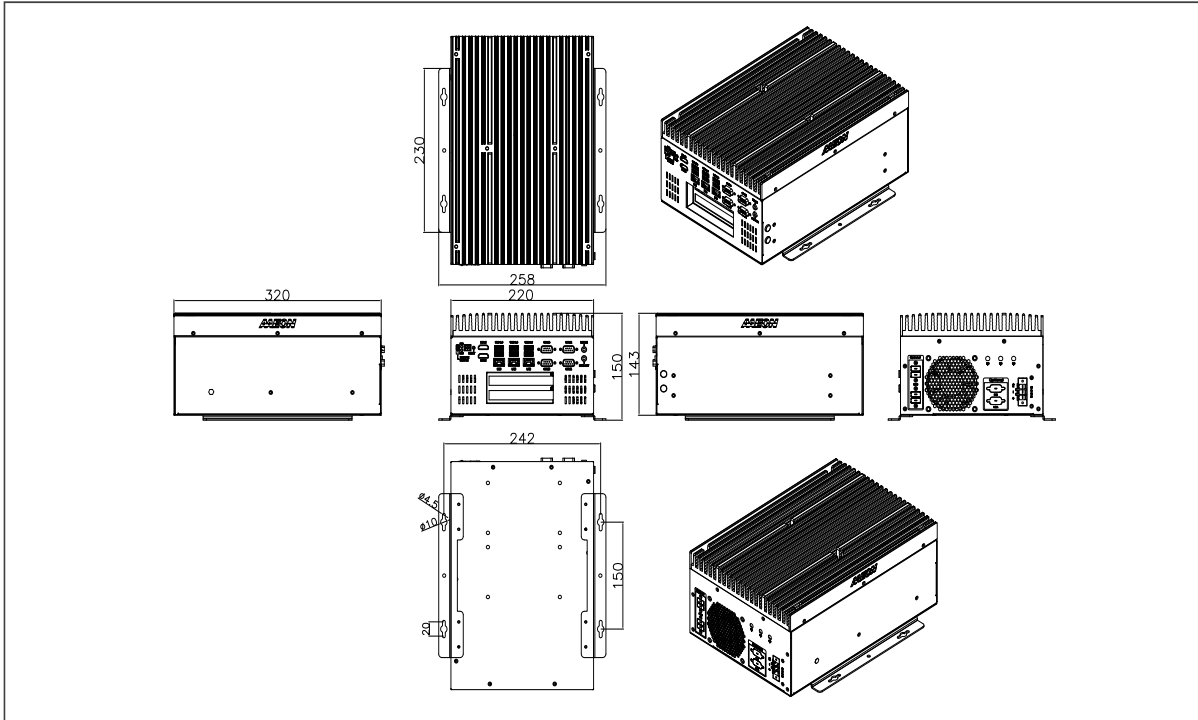
System	
CPU	Intel® Xeon® E-2124G Intel® Core™ i9-9900T Intel® Core™ i7-8700T Intel® Core™ i5-8500T Intel® Core™ i3-8100T Intel® Pentium® G5400T Intel® Celeron® G4900T Note: Support max. TPD 71W Processor
Chipset	C246, No H310 downward support
System Memory	DDR4 SO-DIMM socket x4 (double deck) Support max. 2666MHz up to 128GB Support un-buffered and ECC / non-ECC type SODIMM
Display Interface	HDMI 1.4 x2 Support Dual Independent Display, 4K Ultra HD displays
Storage Device	2.5" SATA Drive Bay x2 (4 SATA Port w/ RAID Function) Half-size Minicard x1 for mSATA (optional) M.2 2280 NVMe slot x1
Ethernet	RJ-45 x3 for GbE LAN (Intel i211AT x2, i219LM x1)
I/O	USB Type-A x6 for USB3.2 Gen1 DB9 x4 For RS-232/422/485 Mic-in x1, Line-out x1 Power ON/OFF switch x1 Remote power on/off connector x1 Reset switch x1 SMA Antenna Holes x3

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**Dimension** Unit: mm



## Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen1	USB 2.0	RS-232	RS-2/4/22/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6840-CFL-A1-1010	—	C246	3	6	—	—	4	—	Mic-in, Line-out x1	2.5" SATA Drive bay x2 mSATA x1 (optional) M.2 2280 NVMe SSD slot x1	HDMI x2	Full-size Minicard x1 Half-size Minicard x1 M.2 M key (2280) x1 PCIe [x4] x1 PCIe [x16] x1	Wallmount	DC In 12-24V with 3-pin terminal block	-20°C ~ 60°C with 0.5m/s airflow

## Packing List

- Wallmount Bracket x2
- 3 Pin DC-in Power Connector x1
- Screw Package x1
- Thermal Pad Package x1
- BOXER-6840-CFL

## Optional Accessories

- **963X00008**  
Securing Bracket for Expansion Card
- **1255901209**  
120W Power Adapter
- **1255902400**  
240W Power Adapter
- **1255903300**  
330W Power Adapter
- **1255X00021**  
480W Power Adapter (DIN Rail)
- **1702031802**  
Power Cord (US type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **9741324A00**  
WiFi Module & Antenna
- **9741EG25G0**  
4G Module & Antenna (for global)

Note: All specifications are subject to change without notice.

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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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