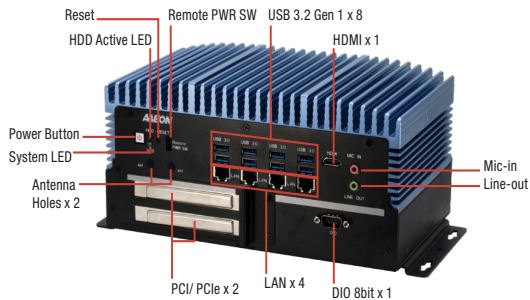


## BOXER-6839-CFL

Fanless Embedded Box PC with Socket Type 8th/9th Generation Intel® Processor

Expandable Fanless BOX PC Solutions

Front View



Rear View



### Features

- High Computing Power
- Intel Coffee Lake-S LGA 1151 Desktop Processor
- Support DDR4 ECC or Non-ECC SODIMM, Up to 64GB
- Support HDMI x 2 Double Display
- Support USB 3.2 Gen 1 x 8
- PCIe [x4] & PCI [x1] Expansion



|                        |                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I/O                    | HDMI x 2<br>RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1)<br>USB 3.2 Gen 1 x 8<br>DB-9 x 6 for RS-232/422/485<br>Audio x 1 (MIC-in, Line-out)<br>DB-15 for DIO 8 bit x 1<br>3 pin 10-35V Power Input x 1<br>Power Button x 1<br>Remote Power switch x 1<br>Reset Button x 1                                                                   |
| Expansion              | Full-size Mini card x 1 (PCIe)<br>Full-size Mini card x 1 (PCIe/mSATA switch by BIOS, Default: mSATA)<br>SIM slot x 1<br>PCIe slot:<br>Riser card type 1: PCIe[x4] slot x 1 & PCIe[x1] x 1 (A1)<br>Riser card type 2: PCIe[x4] slot x 1 & PCI x 1 (A2)<br>Riser card type 3: PCI x 2 (A3)<br>Max. size of expansion card 150 x 105 x 40 mm |
| Indicator              | HDD LED x 1<br>System LED x 1                                                                                                                                                                                                                                                                                                              |
| OS Support             | Windows® 10 64-bit, Linux Ubuntu 20.04                                                                                                                                                                                                                                                                                                     |
| <b>Power Supply</b>    |                                                                                                                                                                                                                                                                                                                                            |
| Power Requirement      | 3-pin Phoenix DC Input 10-35V                                                                                                                                                                                                                                                                                                              |
| <b>Mechanical</b>      |                                                                                                                                                                                                                                                                                                                                            |
| Mounting               | Wallmount                                                                                                                                                                                                                                                                                                                                  |
| Dimensions (W x H x D) | 264mm x 156mm x 125mm                                                                                                                                                                                                                                                                                                                      |
| Gross Weight           | 13.2 lb (6.0 kg)                                                                                                                                                                                                                                                                                                                           |
| Net Weight             | 9.9 lb (4.5 kg)                                                                                                                                                                                                                                                                                                                            |
| <b>Environmental</b>   |                                                                                                                                                                                                                                                                                                                                            |
| Operating Temperature  | -4°F ~131°F (-20°C ~ 55°C) with 0.5 m/s airflow (with TDP ≤ 35W CPU)<br>-4°F~113°F (-20°C ~45°C) with 0.5 m/s airflow (with TDP > 35W CPU)                                                                                                                                                                                                 |
| Storage Temperature    | -49°F ~ 176°F (-45°C ~ 80°C)                                                                                                                                                                                                                                                                                                               |
| Storage Humidity       | 5~95% @ 40°C, non-condensing                                                                                                                                                                                                                                                                                                               |
| Anti-Vibration         | 5 Grms/ 5 ~ 500Hz/ operation -SSD                                                                                                                                                                                                                                                                                                          |
| Anti-Shock             | SSD: 50G @ wallmount, Half-sine, 11ms                                                                                                                                                                                                                                                                                                      |
| Certification          | CE/FCC class A                                                                                                                                                                                                                                                                                                                             |

### Specifications

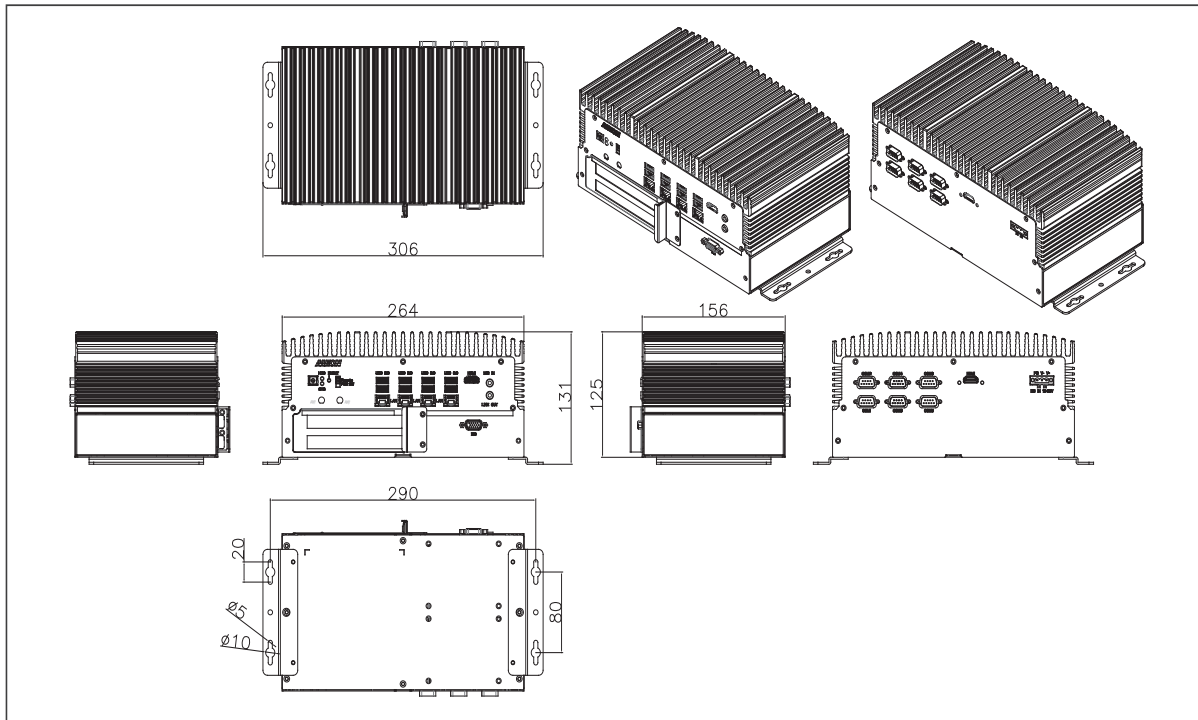
| System            |                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU               | Intel® Xeon® E-2124G<br>Intel® i9-9900T<br>Intel® i7-9700TE<br>Intel® i7-8700T<br>Intel® i5-8500T<br>Intel® i3-8100T<br>Pentium® G5400T<br>Celeron® G4900T |
| Chipset           | C246                                                                                                                                                       |
| System Memory     | DDR4-2666 SO-DIMM slot x 2<br>Up to 64GB, ECC or Non-ECC Support                                                                                           |
| Display Interface | HDMI x 2                                                                                                                                                   |
| Storage Device    | 2.5" SATA HDD/SSD Bay x 2                                                                                                                                  |
| Ethernet          | RJ-45 x 4 for GbE LAN (i211-AT x 3, i219-LM x 1)                                                                                                           |

# BOXER-6839-CFL

Expandable Fanless BOX PC Solutions

## Dimension

Unit: mm



## Ordering Information

| Part Number            | CPU | PCH  | LAN | USB 3.2 Gen1 | RS-232/422/485 | Digital I/O | Audio                      | Storage                 | Display  | Expansion                                              | Mounting  | Power                                     | Operation temp.                                                                                                                                                |
|------------------------|-----|------|-----|--------------|----------------|-------------|----------------------------|-------------------------|----------|--------------------------------------------------------|-----------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BOXER-6839-CFL-A1-1010 | —   | C246 | 4   | 8            | 6              | 8 bit       | Mic-in x 1<br>Line-out x 1 | 2.5" SATA Drive Bay x 2 | HDMI x 2 | PCIe (x4) x 1 + PCIe(x1) x 1<br>Full-size Minicard x 2 | Wallmount | DC-in 10-35V x 1 for 3-pin Terminal Block | -4°F ~131°F (-20°C ~ 55°C), IEC68-2 with 0.5 m/s AirFlow (with TDP ≤ 35W CPU)<br>-4°F ~113°F (-20°C ~ 45°C), IEC68-2 with 0.5 m/s AirFlow (with TDP 35W > CPU) |
| BOXER-6839-CFL-A2-1010 | —   | C246 | 4   | 8            | 6              | 8 bit       | Mic-in x 1<br>Line-out x 1 | 2.5" SATA Drive Bay x 2 | HDMI x 2 | PCIe (x4) x 1 + PCI x 1<br>Full-size Minicard x 2      | Wallmount | DC-in 10-35V x 1 for 3-pin Terminal Block | -4°F ~131°F (-20°C ~ 55°C), IEC68-2 with 0.5 m/s AirFlow (with TDP ≤ 35W CPU)<br>-4°F ~113°F (-20°C ~ 45°C), IEC68-2 with 0.5 m/s AirFlow (with TDP 35W > CPU) |
| BOXER-6839-CFL-A3-1010 | —   | C246 | 4   | 8            | 6              | 8 bit       | Mic-in x 1<br>Line-out x 1 | 2.5" SATA Drive Bay x 2 | HDMI x 2 | PCI x 2<br>Full-size Minicard x 2                      | Wallmount | DC-in 10-35V x 1 for 3-pin Terminal Block | -4°F ~131°F (-20°C ~ 55°C), IEC68-2 with 0.5 m/s AirFlow (with TDP ≤ 35W CPU)<br>-4°F ~113°F (-20°C ~ 45°C), IEC68-2 with 0.5 m/s AirFlow (with TDP 35W > CPU) |

## Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Thermal Pad x 3
- Phoenix Power Connector x 1
- BOXER-6839-CFL

## Optional Accessories

- **125590120B**  
120W Power Adapter
- **1255302300**  
230W Power Adapter
- **1702031802**  
Power Cord (US Type)
- **1702031803**  
Power Cord (Europe Type)
- **170203180E**  
Power Cord (Japan Type)
- **9741324A00**  
WiFi/Bluetooth Module & Antenna
- **9741EG25G0**  
4G Module & Antenna (For Global)

Note: All specifications are subject to change without notice.

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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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