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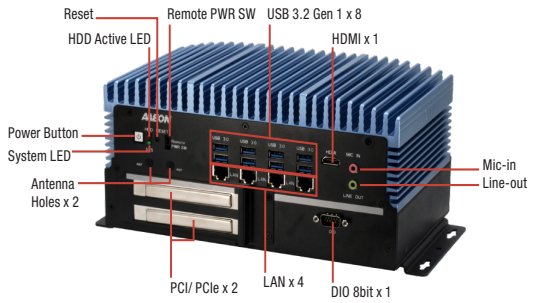
BOXER-6839-CFL

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**

Specifications

System	
CPU	Intel® Xeon® E-2124G Intel® i9-9900T Intel® i7-9700TE Intel® i7-8700T Intel® i5-8500T Intel® i3-8100T Pentium® G5400T Celeron® G4900T
Chipset	C246
System Memory	DDR4-2666 SO-DIMM slot x 2 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)
I/O	HDMI x 2 RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1) USB 3.2 Gen 1 x 8 DB-9 x 6 for RS-232/422/485 Audio x 1 (MIC-in, Line-out) DB-15 for DIO 8 bit x 1 3 pin 10~35V Power Input x 1 Power Button x 1 Remote Power switch x 1 Reset Button x 1
Expansion	Full-size Mini card x 1 (PCIe) Full-size Mini card x 1 ((PCIe/mSATA switch by BIOS, Default: mSATA) SIM slot x 1 PCIE slot : Riser card type 1: PCIe[x4] slot x 1 & PCIe[x1] x 1 (A1) Riser card type 2: PCIe[x4] slot x 1 & PCI x 1 (A2) Riser card type 3: PCI x 2 (A3) Max. size of expansion card 150 x 105 x 40 mm
Indicator	HDD LED x 1 System LED x 1
OS Support	Windows® 10 64-bit, Linux Ubuntu 20.04
Power Supply	
Power Requirement	3-pin Phoenix DC Input 10~35V
Mechanical	
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)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) with 0.5 m/s airflow (with TDP ≦ 35W CPU) -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

Note: All specifications are subject to change without notice.

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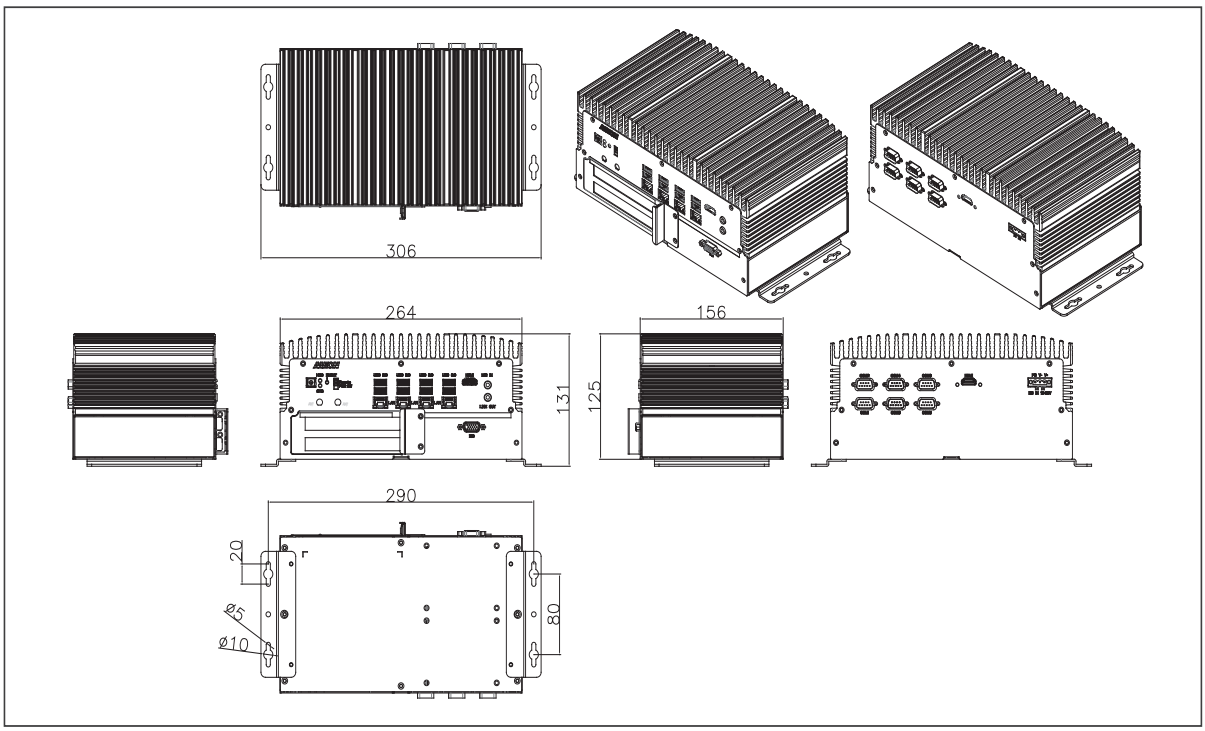
Dimension

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 Line-out x 1	2.5" SATA Drive Bay x 2	HDMI x 2	PCIE [x4] x 1 + PCIE[x1] x 1 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) ' -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 Line-out x 1	2.5" SATA Drive Bay x 2	HDMI x 2	PCIE [x4] x 1 + PCI x 1 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) ' -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 Line-out x 1	2.5" SATA Drive Bay x 2	HDMI x 2	PCI x 2 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) ' -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)

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