

BOXER-6801-RAP PRELIMINARY



Fanless Embedded Computer with 13th Gen Intel® Core™ i7/i5/i3 Mobile Processors

Front View



Rear View



Features

- 13th Gen Intel® Core™ i7/i5/i3 Mobile Processors (Formerly Raptor Lake-P series)
- DDR5 SODIMM x2 up to 96GB
- 2.5 GbE LAN x5 (4 with PoE Functionality, Sharing 60W In Total)
- PCIe[x1] Slot x1 & PCI Slot x1
- Wide Range 9~36V DC Input with Protection Circuit
- Wide Operating Temperature -20~60°C
- TPM 2.0 onboard



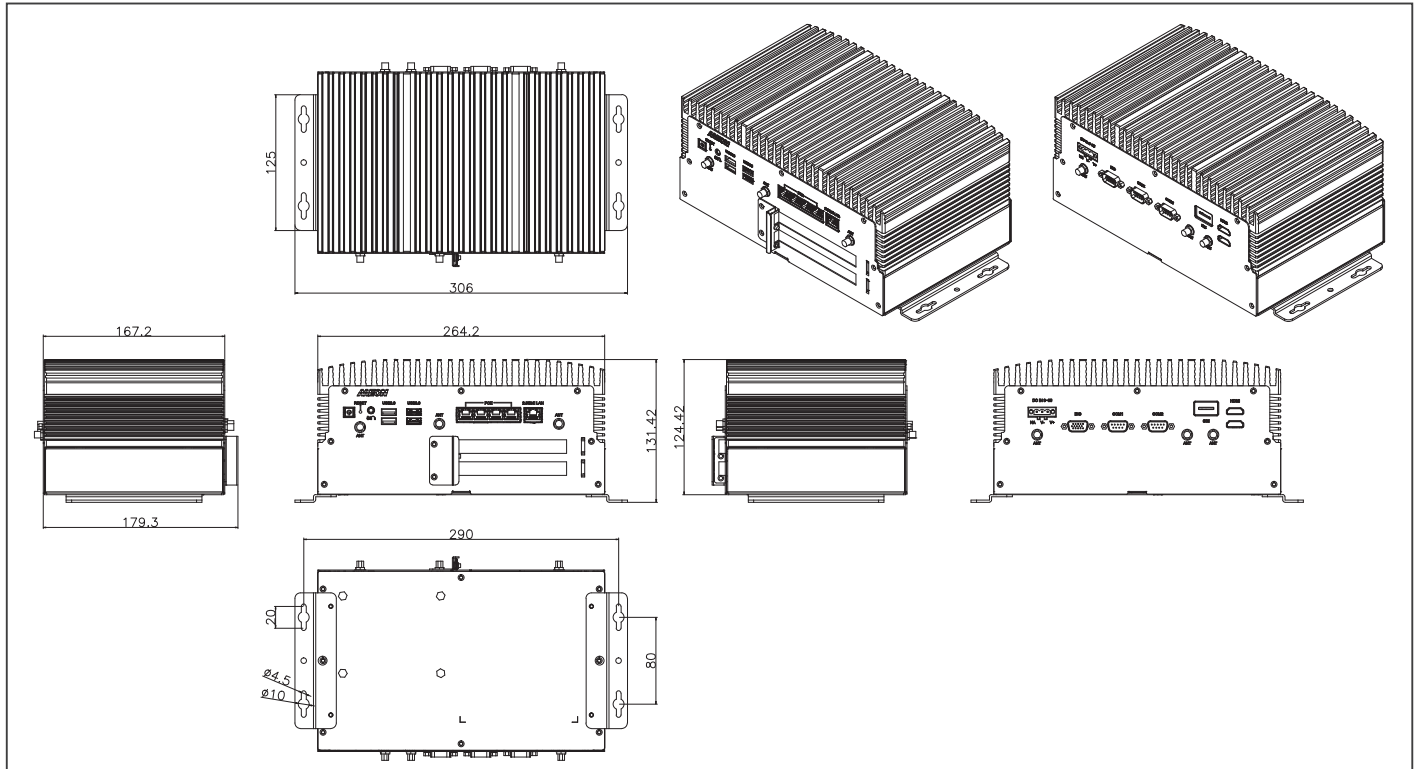
Specifications

System	
CPU	13th Gen Intel® Core™ i7/i5/i3 mobile processors (formerly Raptor Lake-P series), support max. 28W: i7-1370PE i5-1340PE i3-1320PE
Chipset	Intel® SoC
System Memory	DDR5 SO-DIMM slot x2, up to 96GB
Display Interface	HDMI x 2
Storage Device	2.5" SATA Drive Bay x 1 M.2 2280 M-key x 1 (PCIe Gen4x4)
Ethernet	2.5GbE x 5 (Intel® I226-LM)
I/O	2.5GbE x 4 (IEEE802.3 at/af, Intel i226-LM x4 with PoE, sharing 60W in total for four ports) *Note: the system supports all PoE with only less than 20W when input voltage is at or below 12V USB 3.2 Gen 2 (Type-A) x 2 USB 2.0 (Type-A) x 2 DB-9 x 2 for RS-232/422/485 DB-15 x 1 for DIO 8 bit Front-access SIM slot x 1 3.5 mm jack x 1 for Line-out/Mic-in Antenna opening x 6 Reset button x 1 Power button x 1
Expansion	M.2 2280 M-key x 1 M.2 2230 E-key x 1 (PCIe) M.2 3052 B-Key x 1 (USB) with SIM slot PCIe[x1] slot x1 (Max size: 150x110x20 mm) PCI slot x1 (Max size: 150x110x20 mm)
Indicator	—
OS Support	Windows® 10 IoT 2021 LTSC Windows® 11 IoT LTSC Ubuntu 24.04 above
Power Supply	
Power Requirement	DC-in 9~36V 3-pin terminal block connector With protection circuit
Mechanical	
Mounting	Wall mount (optional, Din-rail mount)
Dimensions (W x H x D)	264 x 179 x 124 mm (without brackets)
Gross Weight	13.89 lb (6.3 Kg)
Net Weight	10.80 lb (4.9 Kg)
Environmental	
Operating Temperature	-4°F ~140°F (-20°C ~ 60°C) with 0.7 m/s airflow (with wide temp. memory/storage)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	With SSD: Random, 3Grms, 5~500Hz
Anti-Shock	With SSD: 50G @ wallmount, Half-sine, 11ms
Certification	CE/FCC Class A



Dimension

Unit: mm



Part Number	Chipset	Cooler	Storage	Display	LAN	USB	RS-232/422/485	Expansion Slot	Power
BOXER-6801-RAP-A1-1010	Intel® Core™ i3-1320PE Processor	Fanless	2.5" SATA Drive Bay x 1 M.2 2280 M-key x 1	HDMI x 2	2.5GbE x 5	USB 3.2 Gen 2 (Type-A) x 2 USB 2.0 (Type-A) x 2	2	M.2 2280 M-key x 1 M.2 2230 E-key x 1 (PCIe) M.2 3052 B-Key x 1 (USB) with SIM slot PCIe[x1] slot x1 PCI slot x1	DC-in 9~36V
BOXER-6801-RAP-A2-1010	Intel® Core™ i5-1340PE Processor	Fanless	2.5" SATA Drive Bay x 1 M.2 2280 M-key x 1	HDMI x 2	2.5GbE x 5	USB 3.2 Gen 2 (Type-A) x 2 USB 2.0 (Type-A) x 2	2	M.2 2280 M-key x 1 M.2 2230 E-key x 1 (PCIe) M.2 3052 B-Key x 1 (USB) with SIM slot PCIe[x1] slot x1 PCI slot x1	DC-in 9~36V
BOXER-6801-RAP-A3-1010	Intel® Core™ i7-1370PE Processor	Fanless	2.5" SATA Drive Bay x 1 M.2 2280 M-key x 1	HDMI x 2	2.5GbE x 5	USB 3.2 Gen 2 (Type-A) x 2 USB 2.0 (Type-A) x 2	2	M.2 2280 M-key x 1 M.2 2230 E-key x 1 (PCIe) M.2 3052 B-Key x 1 (USB) with SIM slot PCIe[x1] slot x1 PCI slot x1	DC-in 9~36V

Packing List

- BOXER-6801-RAP x 1
- Wallmount Bracket x 2
- Screw Package x 1
- 3 Pin DC-in Power Connector x 1

Optional Accessories

- 170X001024
Power Cord (European Type)
- 170X000799
Power Cord (US type)
- 170X000803
Power Cord (Japanese Type)
- 1255X00059
120W Power Adapter