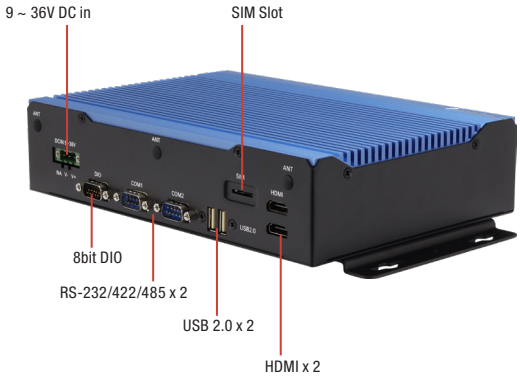
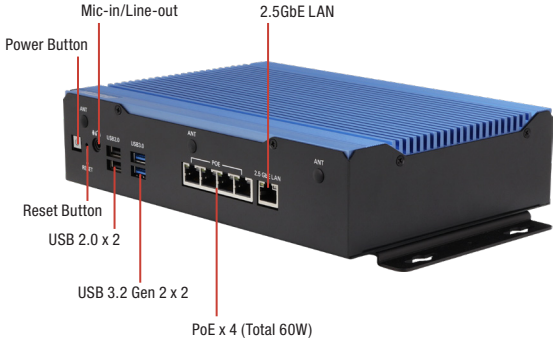
BOXER-6649-RAP

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

Front View



Rear View



Features

- 13th Generation Intel® Core™ i7/i5/i3 Processors (28W)
- Intel® Iris® Xe Graphics
- Dual-Channel DDR5 SODIMM, up to 96GB
- Dual HDMI
- 2.5GbE LAN x 5 (IEEE 802.3 at PSE x 4)
- 9V-36V DC input with protection circuit
- Wide -25°C-60°C Operating Temperature
- Onboard TPM 2.0

DDR 5 | 2.5GbE | USB 2.0 | USB 3.2 Gen 2 | PCI Express

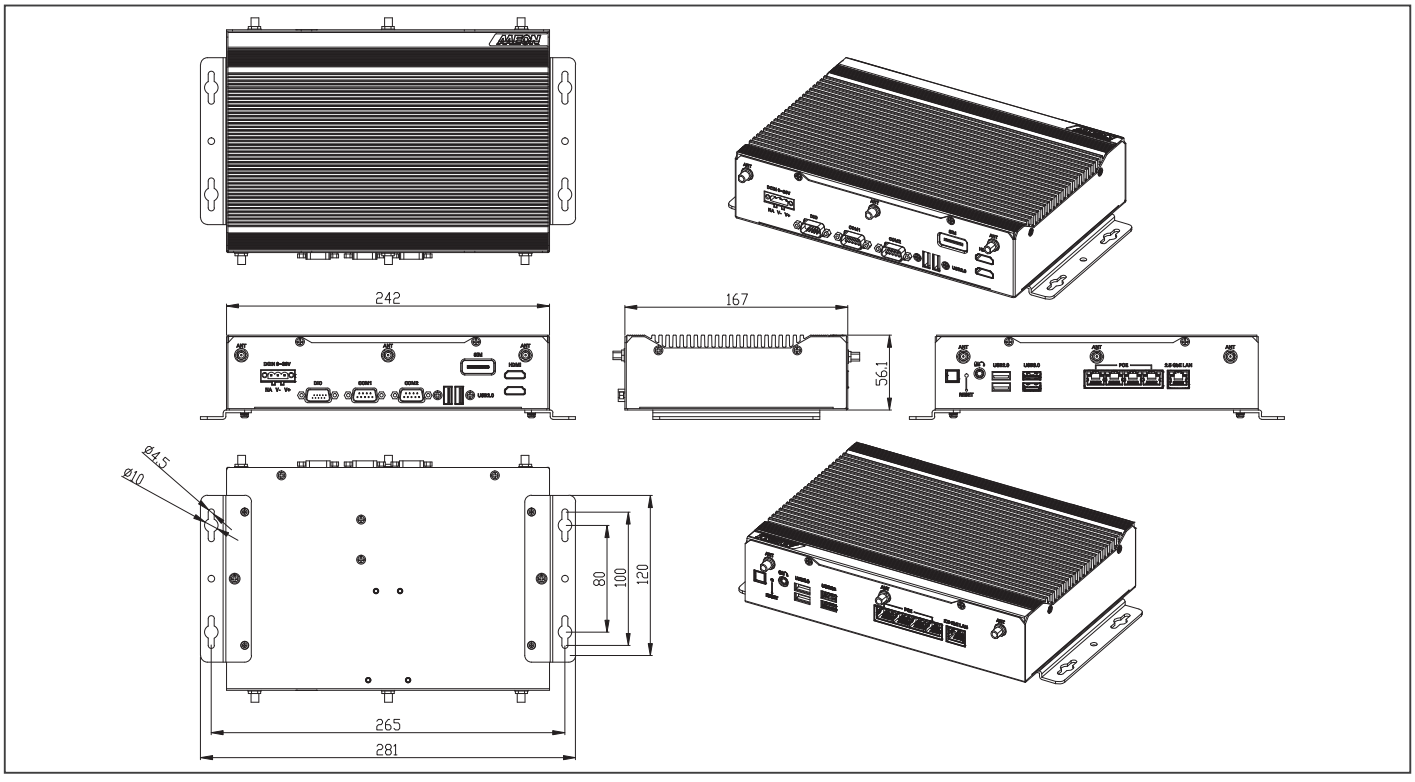
Specifications

System	
CPU	13th Generation Intel® Core™ i7/i5/i3 Processors (28W): Intel® Core™ i3-1320PE Intel® Core™ i5-1340PE Intel® Core™ i7-1370PE
Chipset	Intel® SoC
System Memory	DDR5 SODIMM slot x 2, up to 96GB
Display Interface	HDMI x 2
Storage Device	Internal 2.5" SATA Drive Bay x 1 M.2 2280 M-Key x 1 (PCIe Gen 4 [x4]) for NVMe
Ethernet	Intel® Ethernet Controller I226-LM, 2.5GbE, RJ-45 x 5 (IEEE 802.3 at PoE PSE x 4) Note: PoE Power Budget: 20W (≥12V DC Input) 60W (≥19V DC Input)
I/O	USB 3.2 Gen 2 (Type-A) x 2 (10Gbps) USB 2.0 x 4 DB-9 for RS-232/422/485 x 2 Audio Jack x 1 for Mic-in/Line-out DB-15 for DIO 8-bit Power Button with LED Indicator x 1
Expansion	M.2 2230 E-Key x 1 (PCIe) M.2 3052 B-Key x 1 (USB 3.2/USB 2.0) SIM Slot x 1
Indicator	System Power
OS support	Windows® 10 IoT Enterprise LTSC 2021 Windows® 11 PRO Windows® 11 IoT Enterprise LTSC 2024 Ubuntu 24.04 above
Power Supply	
Power Requirement	9V – 36V DC input via 3-pin Terminal Block Connector with protection circuit
Mechanical	
Mounting	Wallmount, DIN Rail (optional)
Dimensions (W x H x D)	9.5" x 6.6" x 2.2" (242mm x 167mm x 56mm) w/o brackets
Gross Weight	7.1 lb (3.2 Kg)
Net Weight	5.3 lb (2.4 Kg)
Environmental	
Operating Temperature	-13°F ~140°F (-25°C ~ 60°C), IEC60068-2 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	SSD: Random, 3Grms, 5~500Hz
Anti-Shock	SSD: 50G @ wallmount, Half-sine, 11ms
Certification	CE/FCC class A

Note: All specifications are subject to change without notice.

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2	USB 2.0	RS-232/422/485	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6649-RAP-A1-1010	Intel® Core™ i3-1320PE	SoC	2.5GbE LAN x 5 (IEEE802.3 at PoE PSE x 4)	2	4	2	M.2 2280 M Key Slot x 1 (NVMe SSD) 2.5" SATA Drive Bay x 1	HDMI x 2	M.2 2230 E-Key x 1 (PCIe) M.2 3052 B-Key x 1 (USB3.2/USB2.0) SIM Slot x 1	Wallmount, DIN Rail (optional)	9~36V DC in	-13°F ~140°F (-25°C ~ 60°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temp. memory/storage
BOXER-6649-RAP-A2-1010	Intel® Core™ i5-1340PE	SoC	2.5GbE LAN x 5 (IEEE802.3 at PoE PSE x 4)	2	4	2	M.2 2280 M Key Slot x 1 (NVMe SSD) 2.5" SATA Drive Bay x 1	HDMI x 2	M.2 2230 E-Key x 1 (PCIe) M.2 3052 B-Key x 1 (USB3.2/USB2.0) SIM Slot x 1	Wallmount, DIN Rail (optional)	9~36V DC in	-13°F ~140°F (-25°C ~ 60°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temp. memory/storage
BOXER-6649-RAP-A3-1010	Intel® Core™ i7-1370PE	SoC	2.5GbE LAN x 5 (IEEE802.3 at PoE PSE x 4)	2	4	2	M.2 2280 M Key Slot x 1 (NVMe SSD) 2.5" SATA Drive Bay x 1	HDMI x 2	M.2 2230 E-Key x 1 (PCIe) M.2 3052 B-Key x 1 (USB3.2/USB2.0) SIM Slot x 1	Wallmount, DIN Rail (optional)	9~36V DC in	-13°F ~140°F (-25°C ~ 60°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temp. memory/storage

Packing List

- **BOXER-6649-RAP x 1**
- **3pin Terminal Block conntecor x 1 (for DC input)**
- **Screw Pack x 1**
- **Wallmount Kit x 1**

Optional Accessories

- **1255X00102**
  180W AC to DC Power Adapter
- **170X000799**
  Power Cord (US Type)
- **170X001024**
  Power Cord (Europe)
- **170X000803**
  Power Cord (Japan)