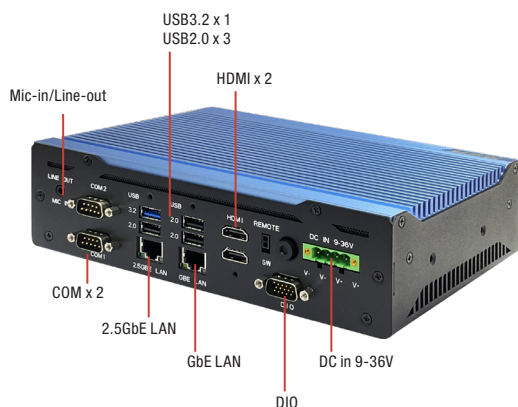


BOXER-6650-PTH PRELIMINARY

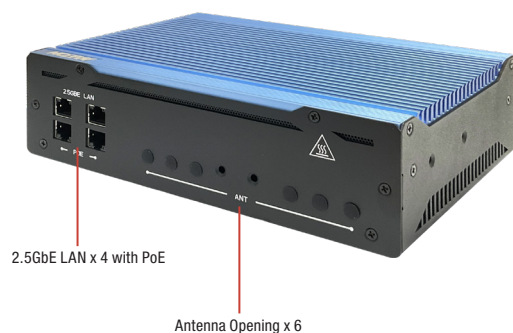
Fanless Compact Embedded Computer with Intel® Core™ Ultra Processors (Series 3)



Front View



Rear View



Features

- Intel® Core™ Ultra Series 3 (formerly Panther Lake)
- Provide max up to 180 Tops AI computing power
- Ultra Slim chassis Design: 61mm
- DDR5 6400MHz CSO-DIMM x2, up to 64GB
- Display support HDMI 2.1 x2
- 2.5GbE LAN x 5 (IEEE 802.3 at PSE x 4)
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- 9V~36V DC Input with Protection Circuit
- Wide -25°C~60°C Operating Temperature
- Out-of-Band support by request



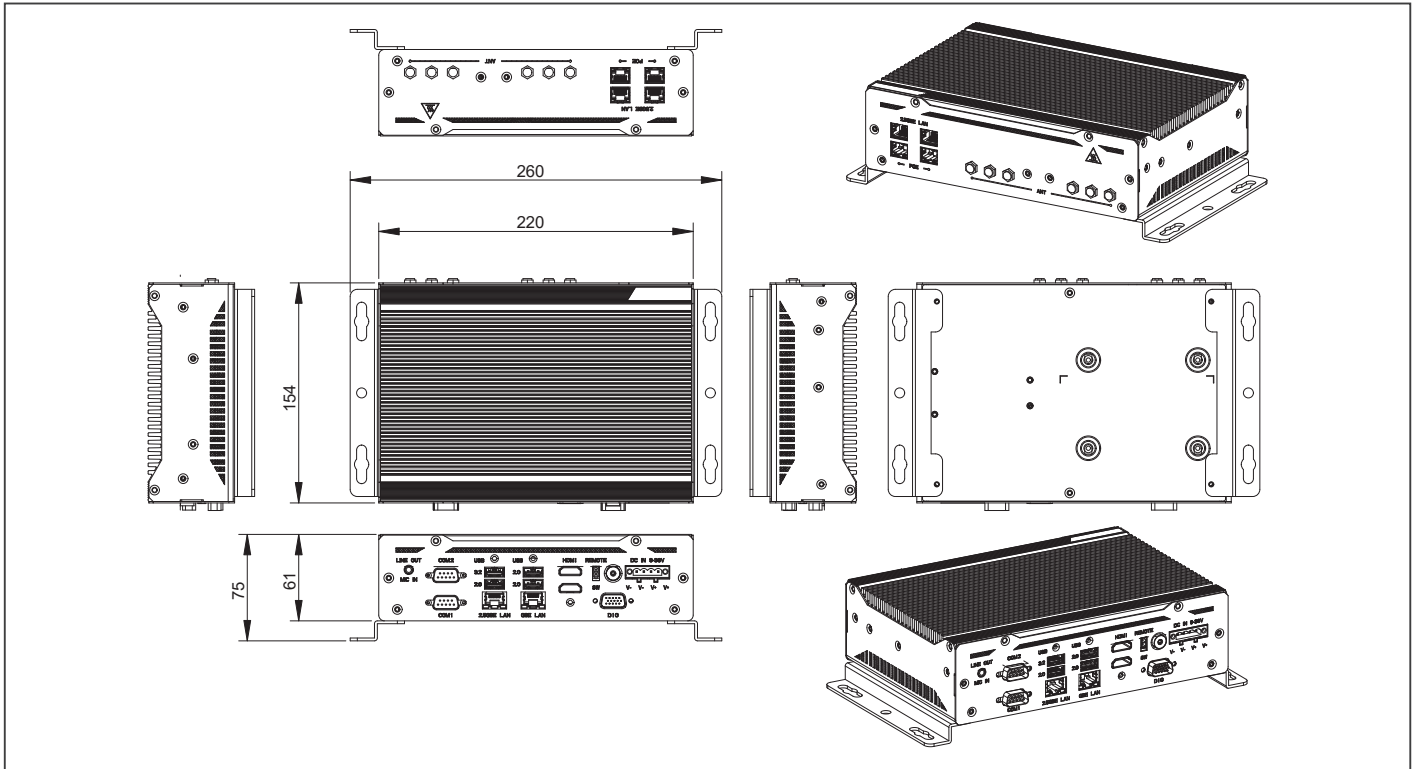
Specifications

System	
CPU	Intel® Core™ Ultra Series 3 processors (25W, formerly Panther Lake): Intel® Core™ Ultra 5 325 Intel® Core™ Ultra X7 358H Intel® Core™ Ultra X9 388H
Chipset	Intel® SoC
System Memory	DDR5 6400MHz CSO-DIMM x2, max. up to 64GB
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	RJ-45 x 6 (IEEE 802.3af/at PoE PSE x 4, total power budget of 60W): Intel® Ethernet Controller I226-LM, 2.5GbE x 5 Intel® Ethernet Controller I210-IT, 1GbE x 1 (OOB support by request)
I/O	USB3.2 Gen1 x1 USB2.0 x 3 DB-9 x 2 for RS-232/422/485 DB-15 Male x 1 for DIO 8-bit Audio Jack x 1 for Mic-in/Line-out Antenna opening x 6 Power button with power LED x 1 Remote Power On/Off x 1
Expansion	M.2 2230 E-Key x 1 (PCIe [x1]) M.2 3052 B-Key x 1 (USB 3.2) Nano SIM Slot x 1 TPM2.0 (Onboard)
Indicator	Power button with power LED
OS support	Windows 11 PRO/IoT Linux Ubuntu 24.04 and above
Power Supply	
Power Requirement	DC 9 V~36 V via 4-pin Terminal Block (ATX mode) Power protection features: OCP (Overcurrent), OVP (Overvoltage), UVP (Undervoltage), SCP (Short circuit), RVP (Reverse voltage)
Mechanical	
Mounting	Wallmount, DIN Rail (optional)
Dimensions (W x H x D)	8.66" x 6.06" x 2.4" (220mm x 154mm x 61mm) w/o brackets
Gross Weight	7.7 lb (3.5kg)
Net Weight	5.5 lb (2.5kg)
Environmental	
Operating Temperature	-13°F ~ 131°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	Random, 3 Grms, 5~500Hz, with SSD
Anti-Shock	With SSD: 50 G, IEC 60068-2-27, half sine, 11 ms duration
Certification	CE / FCC class A



Dimension

Unit: mm



Ordering Information

- TBD

Optional Accessories

- **1255X00112**
180W AC to DC Power Adapter
- **170X000799**
Power Cord (US type)
- **170X001024**
Power Cord (European Type)
- **170X000803**
Power Cord (Japanese Type)

Packing List

- BOXER-6650-PTH x 1
- Wallmount Bracket x 2
- 4Pin DC-in Power connector x 1
- Remote Power on/off cable x 1
- Thermal pad for memory
- Screw Pack x 1