



BOXER-6647-MTH

Fanless Compact Embedded Computer with Intel® Core™ Ultra 7/5 Processors



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Features

- Intel® Core™ Ultra 5/7 Processor
- DDR5 5600 MT/s S0-DIMM x2, up to 64GB (Note: One DIMM slot can be user-populated via rear chassis access. Second DIMM slot is not user-accessible, but module preinstallation is available upon request.)
- Accessible M.2 2280 NVMe SSD Tray + 2.5" SSD Tray
- M.2 3052 B-Key for 5G
- USB 3.2 Gen 2 (Type-A) x 4
- Onboard TPM 2.0
- Wide 9V ~ 36V DC Input Range
- Wide -20°C ~ 60°C Operating Temperature



Specifications

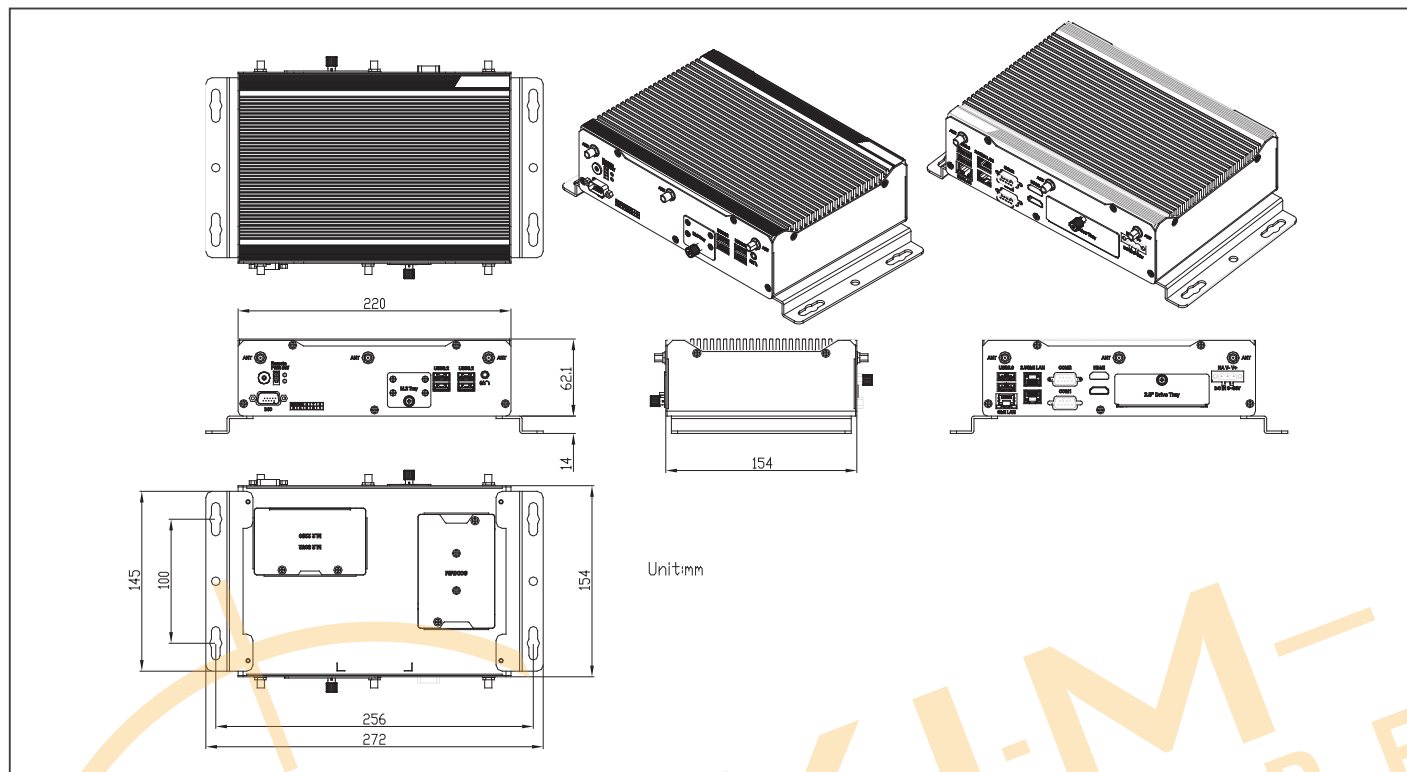
System	
CPU	Intel® Core™ Ultra 5 processor 125H Intel® Core™ Ultra 7 processor 155H
Chipset	Intel® SoC
System Memory	DDR5 5600 MT/s S0-DIMM x2, up to 64GB *Note: One DIMM slot can be user-populated via rear chassis access. Second DIMM slot is not user-accessible, but module preinstallation is available upon request.
Display Interface	HDMI x 2 (Support 4K @60Hz)
Storage Device	M.2 2280 M-Key x 1 (NVMe PCIe SSD, quick access tray design) 2.5" SATA HDD/SSD x 1 (quick access tray design)
Ethernet	RJ-45 x 2 for 2.5GbE LAN (Intel® Ethernet Controller I226) RJ-45 x 1 for GbE LAN (Intel® Ethernet Connection I219)
I/O	HDMI x 2 USB 3.2 Gen 2 (Type-A) x 4 USB 2.0 (Type-A) x 2 DB-9 Male x 2 for RS-232/422/485 3.5mm Jack x 1 for Mic-in/Line-out DB-15 male x1 for 8-bit DIO Remote Power x 1 Power Button with LED x 1 Antenna holes x 6
Expansion	M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage) M.2 2230 E-Key x 1 (for Wi-Fi) M.2 3052 B-Key x 1 (for 5G/LTE) SIM Slot x 1
Indicator	Sys LED Storage active LED
OS support	Windows® 11 Pro, Windows® 11 IoT Enterprise, Linux Ubuntu 24.04.01 and above
Power Supply	
Power Requirement	DC-in 9~36V in 3-pin Terminal block connector
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	8.66" x 6.06" x 2.42" (220mm x 154mm x 62.1mm) w/o bracket 10.7" x 6.1" x 3.0" (272mm x 154mm x 76.1mm) with bracket
Gross Weight	6.6 lbs. (3.2 kg)
Net Weight	4.9 lbs. (2.4 kg)
Environmental	
Operating Temperature	-4°F ~140°F (-20°C ~ 60°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature Memory/Storage
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	2 Grms/ 5 ~ 500Hz/ operation (with SSD)
Anti-Shock	30G, IEC60068-2-27, half sine, 11 ms duration (with SSD)
Certification	CE/FCC class A



BOXER-6647-MTH

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LAN	PCH	USB 3.2 Gen2	USB 2.0	RS232/422/485	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6647-MTH-A1-1010	Intel® Core™ Ultra 5 processor 125H	3	Intel SoC	4	2	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 M.2 3052 B Key x 1 SIM Slot x 1	Wallmount	9~36V DC in	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC60068-2 with 0.7 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM) SSD: -20 ~ 85C RAM: -20 ~ 95C
BOXER-6647-MTH-A2-1010	Intel® Core™ Ultra 7 processor 155H	3	Intel SoC	4	2	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 M.2 3052 B Key x 1 SIM Slot x 1	Wallmount	9~36V DC in	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC60068-2 with 0.7 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM) SSD: -20 ~ 85C RAM: -20 ~ 95C

Packing List

- BOXER-6647-MTH
- Wallmount Bracket x 2
- 3Pin DC-in Power connector x 1
- Remote Power on/off cable x 1
- Thermal pad for memory
- Screw Pack x 1

Optional Accessories

- 125590120B
19V 120W AC to DC Adapter
- 170X000799
Power Cord (US Type)
- 170X000800
Power Cord (Europe)
- 170X000803
Power Cord (Japan)

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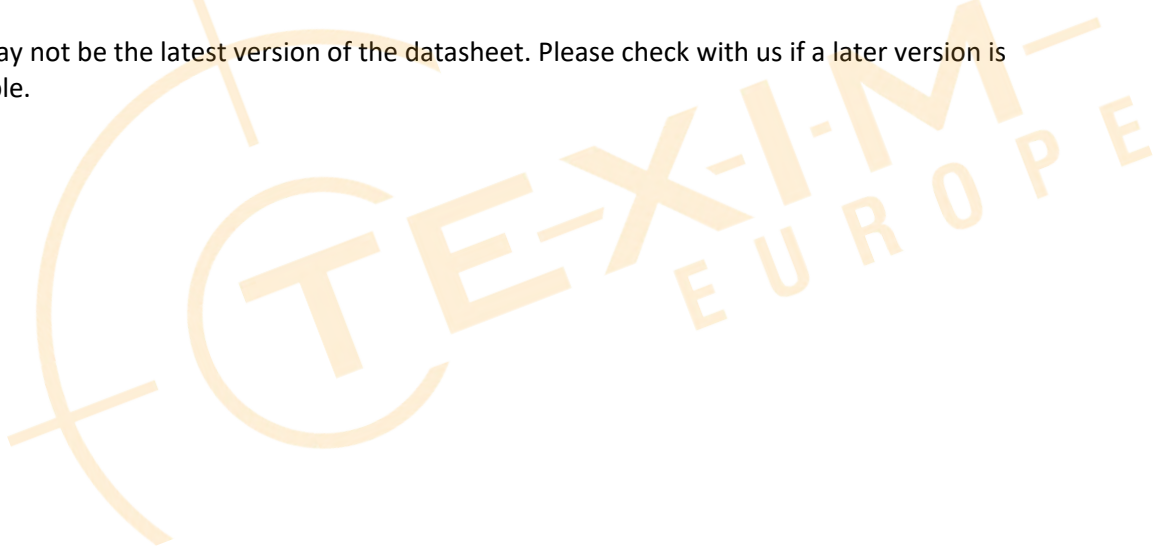
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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