

BOXER-6645U-RPL

Fanless Embedded Box PC with Socket Type 12/13/14th Generation Intel® Core™ Processor



Features

- 12/13/14th Generation Intel® Core™ LGA 1700 socket-type Processor with Intel® H610E Chipset
- Wide Operating Temperature (-25°C ~ 70°C)
- HDMI output x 2
- GbE LAN x 2
- USB Type-A x 6
- RS-232/422/485 x 2, RS-232 x 4 (Optional)
- Internal 2.5" SSD bay x 2
- 10 ~ 35 VDC power input range
- TPM 2.0 onboard



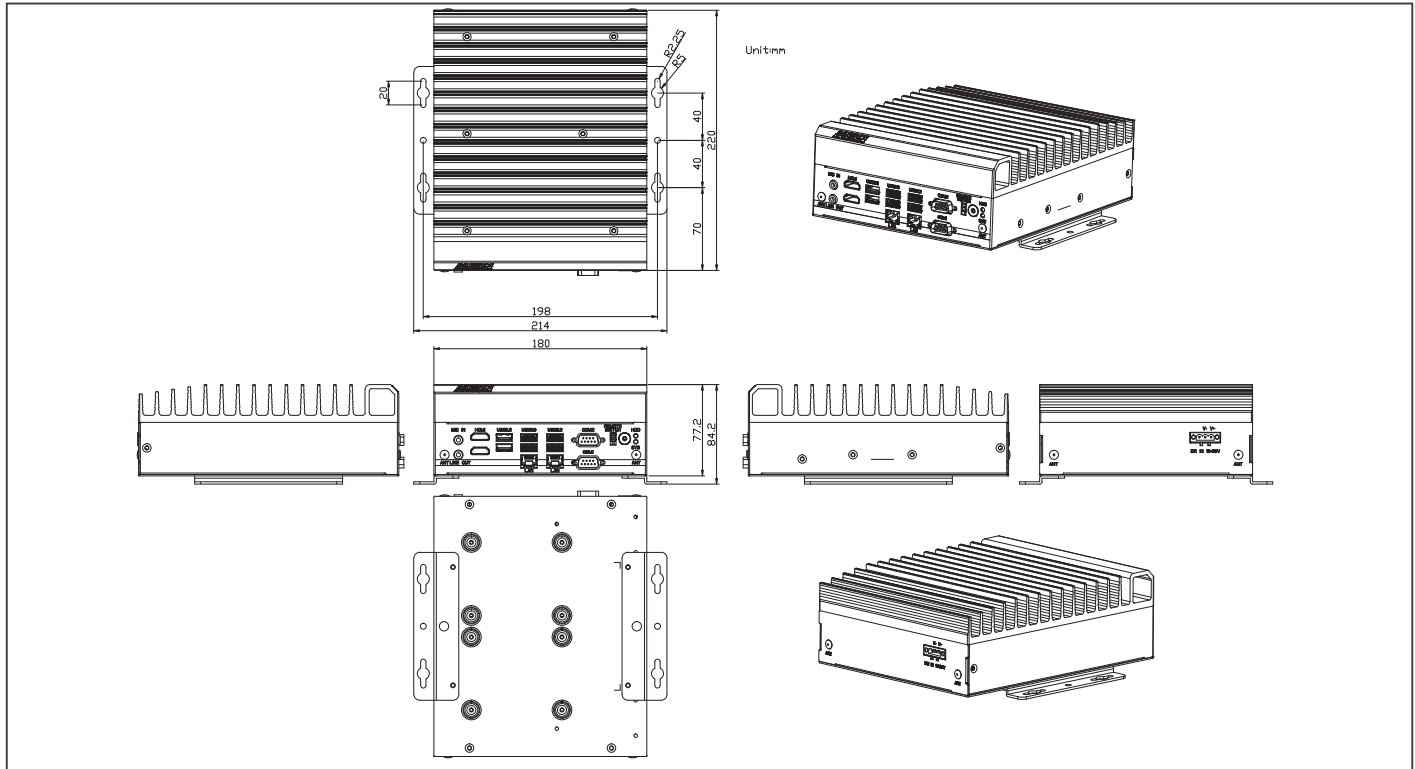
Specifications

System	
CPU	12/13/14th Generation Intel® Core™ LGA 1700 socket-type Processor, Max TDP 65W 13th Generation Intel® Core™ Processors: Intel® Core™ i9-13900TE, Intel® Core™ i9-13900E, Intel® Core™ i7-13700TE, Intel® Core™ i7-13700E, Intel® Core™ i5-13500TE, Intel® Core™ i5-13500E, Intel® Core™ i3-13100TE, Intel® Core™ i3-13100E, 14th Generation Intel® Core™ Processors: Intel® Core™ i9-14900, Intel® Core™ i9-14900T, Intel® Core™ i7-14700, Intel® Core™ i7-14700T, Intel® Core™ i5-14500, Intel® Core™ i5-14500T, Intel® Core™ i3-14100, Intel® Core™ i3-14100T,
Chipset	Intel® H610E
System Memory	DDR5 SODIMM x 2, up to 64GB
Display Interface	HDMI x 2, 4K x 2K @30Hz
Storage Device	2.5" SATA Drive Bay x 2 M.2 2280 M-Key x 1 (PCIe Gen 3 [x4]) for NVMe
Ethernet	Intel® I219-LM, GbE RJ-45 x 1 Intel® I226-LM, 2.5GbE RJ-45 x 1
I/O	USB 3.2 Gen 2 x 4, USB 2.0 x 2 DB-9 x 2 for RS-232/422/485 Audio x 1 (Mic-in/Line-out) Power Button with power LED x 1 Remote Power On/Off x 1
Expansion	M.2 2280 M-Key x 1 (For NVMe Storage) M.2 2230 E-Key x 1 (for Wi-Fi/Bluetooth) Full Size MiniPCIe x 1 (optional for mSATA) Onboard TPM 2.0
Indicator	System / Storage
OS support	Windows® 10 IoT Enterprise 64-bit Windows® 11 PRO 64-bit Linux Ubuntu 22.04
Power Supply	
Power Requirement	3-pin DC Input 10~35V
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	7.09" x 3.04" x 8.66" (180mm x 77.2mm x 220mm) 8.43" x 3.31" x 8.66" (214mm x 84.2mm x 220mm) with brackets
Gross Weight	8.59 lb (3.9 kg)
Net Weight	6.39 lb (2.9 kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature memory/storage (TDP 65W CPU) -13°F ~ 158°F (-25°C ~ 70°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature memory/storage (TDP 35W CPU)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	IEC60068-2-64, 3 Grms/ 5 ~ 500Hz/ operation (with SSD)
Anti-Shock	50G, IEC60068-2-27, half sine, 11ms duration (with SSD)
Certification	CE/FCC Class A

Note: All specifications are subject to change without notice.

Dimension

Unit: mm



Packing List

- BOXER-6645U-RPL x1
- Wallmount Bracket x 2
- 3 Pin DC-In Power Connector x 1
- Remote ON/OFF cable x 1
- Screw Package x 1

Optional Accessories

- **1255X00102**
19V 180W Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9C3256G007**
M.2 2280 M Key 256GB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS256GMTE710T-I
- **9C3512G006**
M.2 2280 M Key 512GB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS512GMTE710T-I
- **9C2001T007**
M.2 2280 M Key 1TB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS1TMTE710T-I
- **9C3002T002**
M.2 2280 M Key 2TB, PCIe Gen4 x 4, 3D TLC ,
-40°C~85°C, Transcend TS2TMTE710T-I
- **9641664501**
Heatsink pack for PCIe Gen4x4 M.2 2280 NVMe SSD

Ordering Information

Part Number	PCH	LAN	USB 3.2 Gen2	USB 2.0	RS232	RS232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6645U-RPL-A1-1010	Intel® H610E	2	4	2	—	2	—	Mic-in Line-out	M.2 2280 M Key Slot x1 (NVMe SSD) 2.5" SATA Drive Bay x2	HDMI x2	M.2 2230 E Key x 1 Full Size MiniPCIe x 1 SIM Slot x 1	Wallmount	10~35V	-13°F ~ 131°F (-25°C ~ 55°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature memory/storage (TDP 65W CPU) -13°F ~ 158°F (-25°C ~ 70°C), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature memory/storage (TDP 35W CPU)