

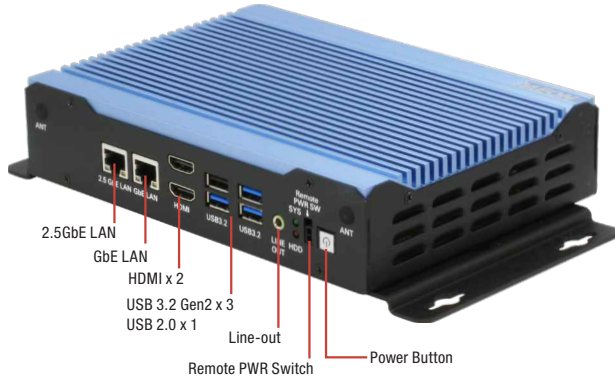
BOXER-6643-TGU

Fanless Embedded Box PC 11th Generation Intel® Core™ SoC Processor

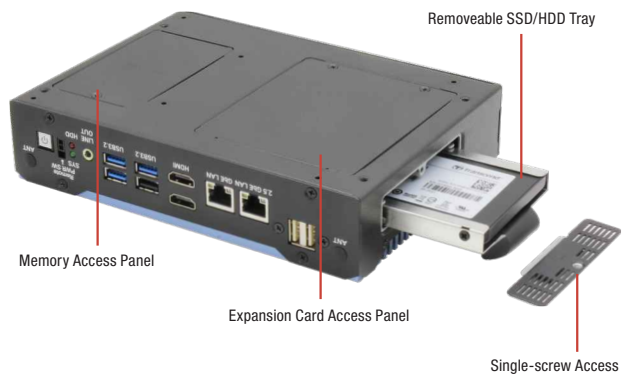
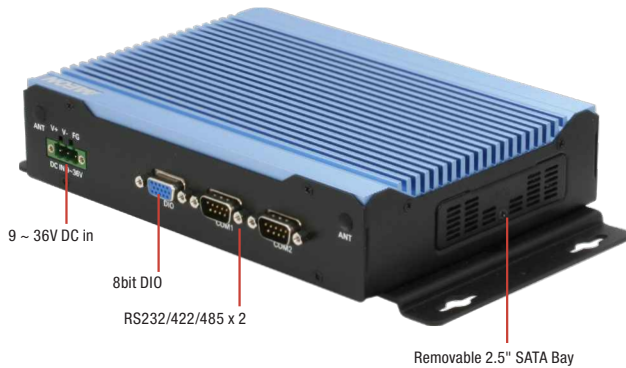


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Front View



Rear View



Features

- Extreme Computing Power with Intel® SoC Processor
- DDR4 slot x2, up to 64GB
- TPM 2.0 onboard
- Support High Speed NVMe storage (M.2 2280)
- GbE LAN x 1 (Intel I219) + 2.5GbE LAN x 1 (Intel I225)
- Supports M.2 3052 B Key for 5G module
- Wide Range 9-36V DC input
- Wide Range -20~60 °C Operating Temperature

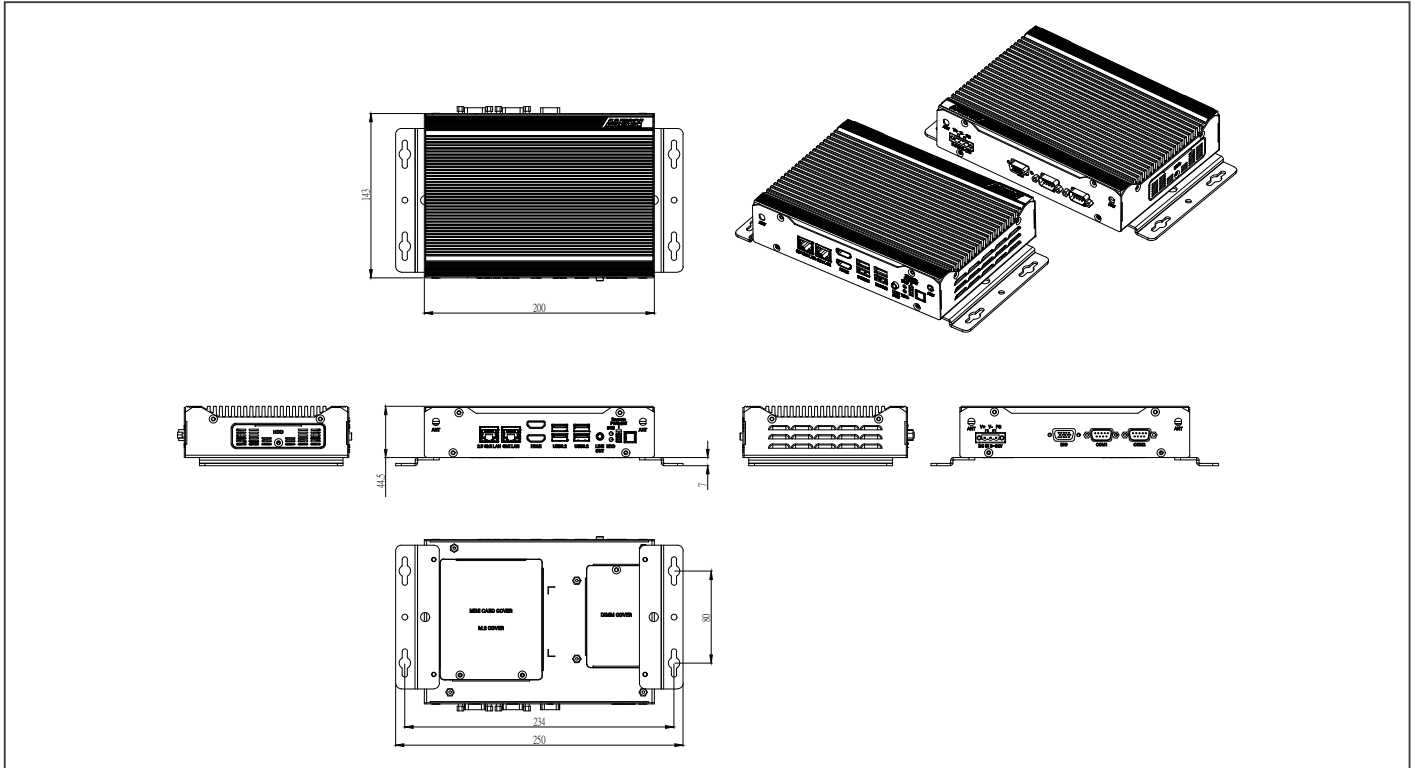


Specifications

System	
CPU	Intel® Core™ i7-1185G7E Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E
Chipset	Intel® SoC
System Memory	DDR4 3200MHz S0-DIMM x 2, max 64GB
Display Interface	HDMI 2.0 x 2
Storage Device	M.2 2280 M Key NVMe Slot x1 (PCIex4) 2.5" SATA Drive Bay x1
Ethernet	RJ-45 x 2 for 1G/2.5GbE LAN (i219x1, i225x1)
I/O	HDMI 2.0 x 2 RJ-45 x 2 for 1G/2.5GbE LAN (i219 x 1, i225 x 1) USB Type-A x3 for USB3.2 Gen2 USB Type-A x1 for USB 2.0 DB-9 x 2 for RS-232/422/485 DB15 x1 Male for Digital I/O 8-channel Line out x 1 3 pin 9~36V Power Input x 1 Power Button with LED x 1
Expansion	M.2 3052 B Key x 1 (for 5G module) Full-Size Minicard x1 (PCIe + USB / SATA, Default PCIe + USB) SIM Slot x 1
Indicator	Power / System LED
OS Support	Windows® 10 IoT 64-bit Windows® 11 Pro 64-bit Linux Ubuntu 20.04.2
Power Supply	
Power Requirement	DC-in 9-36V x1 for 3-pin Terminal Block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	9.84" x 5.62" x 2.03" (250 x 143 x 51.5) with bracket 7.87" x 5.62" x 1.75" (200 x 143 x 44.5) w/o bracket
Gross Weight	4.4 lb (2.0 kg)
Net Weight	3.3 lb (1.5 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation (with SSD)
Anti-Shock	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LAN	PCH	USB 3.2 Gen2	USB 2.0	RS 232/422/485	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6643-TGU-A1-1010	Intel® Core™ i3-111564E	2	Intel SoC	3	1	2	-M.2 2280 M Key NVMe Slot x1 (PCIex4) -2.5" SATA Drive Bay x1	HDMI x 2	-M.2 3052 B Key x 1 (for 5G module) -Full-Size Minicard x1 (PCIe + USB / SATA, Default PCIe + USB) -SIM Slot x 1	Wallmount	9~36V DC in	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
BOXER-6643-TGU-A2-1010	Intel® Core™ i5-114567E	2	Intel SoC	3	1	2	-M.2 2280 M Key NVMe Slot x1 (PCIex4) -2.5" SATA Drive Bay x1	HDMI x 2	-M.2 3052 B Key x 1 (for 5G module) -Full-Size Minicard x1 (PCIe + USB / SATA, Default PCIe + USB) -SIM Slot x 1	Wallmount	9~36V DC in	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
BOXER-6643-TGU-A3-1010	Intel® Core™ i7-118567E	2	Intel SoC	3	1	2	-M.2 2280 M Key NVMe Slot x1 (PCIex4) -2.5" SATA Drive Bay x1	HDMI x 2	-M.2 3052 B Key x 1 (for 5G module) -Full-Size Minicard x1 (PCIe + USB / SATA, Default PCIe + USB) -SIM Slot x 1	Wallmount	9~36V DC in	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- BOXER-6643-TGU x 1

Optional Accessories

- **125590120B**
120W Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)