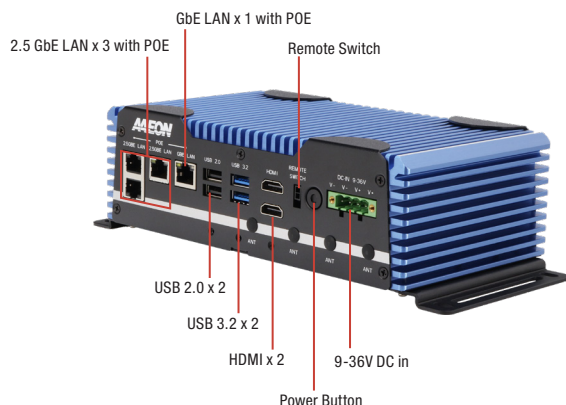


BOXER-6619-TWL

Intel® Core™ Processor N-series & Intel® Processor N-series



Front View



Rear View



Features

- Intel® Processor Core™ 3 & N Series (Formerly Twin Lake)
- DDR5 SODIMM x 1, up to 32GB
- VGA x 1 + HDMI x 2
- LAN x 4 with IEEE 802.3 at/af PoE (Total 80W)
- 9V~36V DC Input with Protection Circuit
- Wide -20°C~60°C Operating Temperature
- Optional Out-of-Band support (by request)
- Onboard TPM 2.0



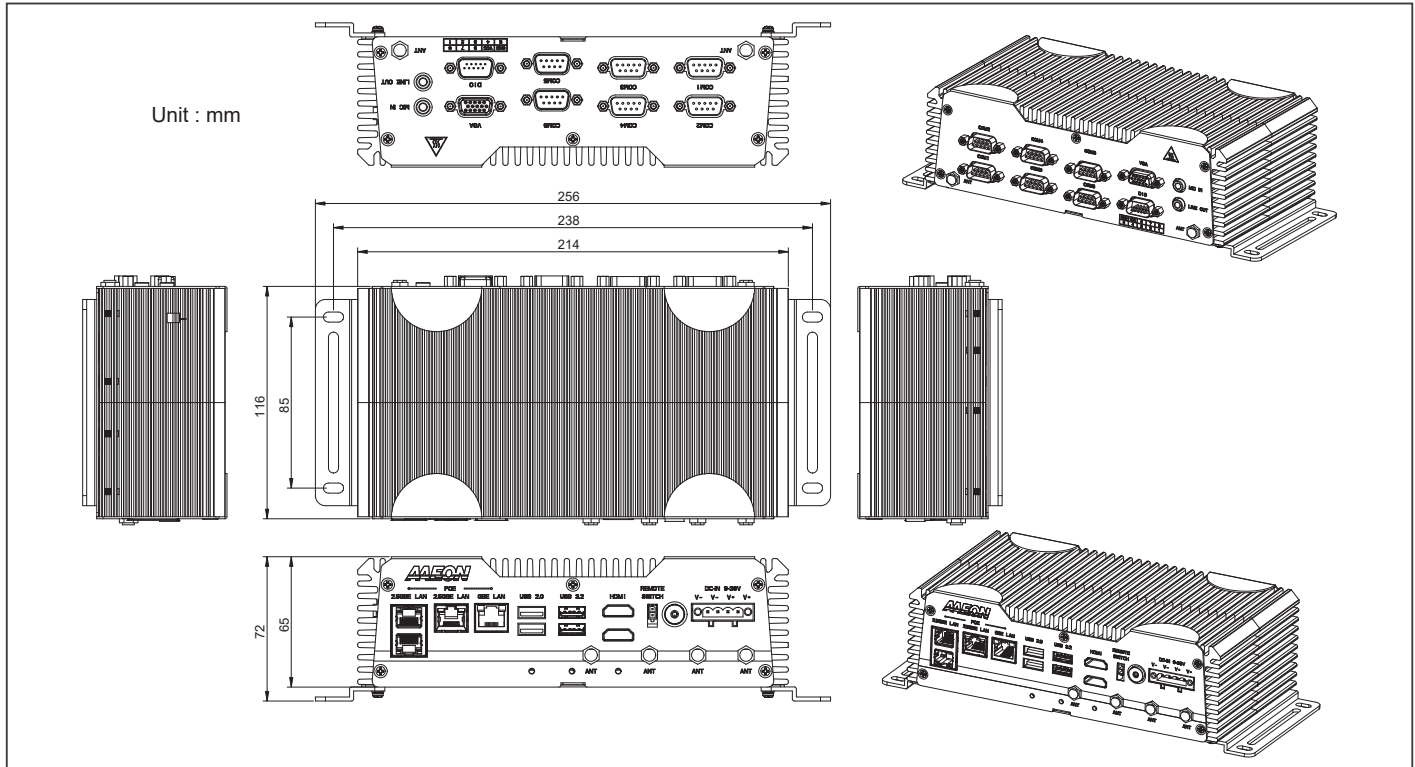
Specifications

System	
CPU	Intel® Core™ Processor N-series & Intel® Processor N-series (formerly Twin Lake): -Intel® Core™ 3 Processor N355 (8C/8T), TDP 15W -Intel® Processor N150 (4C/4T), TDP 6W
Chipset	Intel® SoC
System Memory	DDR5 SODIMM slot x 1, up to 32GB
Display Interface	VGA x 1 (Support up to FHD) HDMI x 2 (Support up to 4K @60Hz)
Storage Device	Internal 2.5" SATA Drive Bay x 1
Ethernet	RJ-45 x 4 (IEEE 802.3af/at PoE support, providing a total power budget of 80W across all ports): Intel® Ethernet Controller I226-LM, 2.5GbE x 3 Intel® Ethernet Controller I210-IT, 1GbE x 1 (optional OOB support) Note: When the input voltage is ≤10V, the system supports PoE with a maximum combined output of 20W (≈5W per port).
I/O	USB 3.2 Gen 1 (Type-A) x 2 USB 2.0 x 2 (additional USB 2.0 x 2 via Wafer, optional) DB-9 x 6 for RS-232/422/485 DB-15 Male x 1 for DIO 8-bit Mic-in / Line-out x 1 Antenna Opening x 6 Power Button with Power LED x 1 Remote Power On/Off x 1 Reset Button x 1
Expansion	M.2 2230 E-Key x 1 (PCIe [x1], USB 2.0) M.2 3052 B-Key x 1 (USB 3.2) Nano SIM Slot x 1 NCSI Header x 1 for OOB function (Power Button/Reset/5V/UART)
Indicator	—
OS support	Windows 11 IoT Linux Ubuntu 24.04 (Kernel 6.8 or later)
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 (default) DIN Rail (optional)
Dimensions (W x H x D)	8.4" x 4.5" x 2.5" (214mm x 116mm x 65mm) w/o Bracket 9.9" x 4.5" x 2.8" (253mm x 116mm x 72mm) w/ Bracket
Gross Weight	6.2 lb (2.8 kg)
Net Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	-4°F ~140°F (-20°C ~ 60°C) 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	With SSD: Random, 3Grms, 5~500Hz
Anti-Shock	With SSD: 50G @ wallmount, half-sine, 11ms
Certification	CE/FCC class A



Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB3.0	USB2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp
BOXER-6619-TWL-A1-1010	Intel® Processor N150	SoC	GbE × 1 2.5 GbE × 3 (support IEEE802.3 at/af total 80W)	2	2	6	8	Mic in Line out	2.5" SATA-III Drive Bay x1	HDMI x 2 VGA x 1	M.2 E-Key x 1 (PCIe [x1]), USB 2.0 M.2 B Key x 1 (USB 3.2) Nano SIM Slot x 1	Wallmount, DIN Rail (optional)	9~36V DC in	4°F~113°F (-20°C~60°C) with 0.7 m/s airflow with wide temp.memory/storage
BOXER-6619-TWL-A2-1010	Intel® Core™ 3 Processor N355	SoC	GbE × 1 2.5 GbE × 3 (support IEEE802.3 at/af total 80W)	2	2	6	8	Mic in Line out	2.5" SATA-III Drive Bay x1	HDMI x 2 VGA x 1	M.2 E-Key x 1 (PCIe [x1]), USB 2.0 M.2 B Key x 1 (USB 3.2) Nano SIM Slot x 1	Wallmount, DIN Rail (optional)	9~36V DC in	4°F~113°F (-20°C~60°C) with 0.7 m/s airflow with wide temp.memory/storage

Optional Accessories

- 1255X00112
180W Power Adapter
- 170X000799
Power Cord (US Type)
- 170X001024
Power Cord (Europe)
- 170X000803
Power Cord (Japan)

Packing List

- BOXER-6619-TWL x 1
- 4-pin Terminal Block connector x 1 (for DC input)
- Screw Pack x 1
- Wallmount Kit x 1
- Remote Power On/Off connector x 1