

BOXER-6451-ADP

Compact & fanless Box PC with Intel® 12th Gen. Core CPU

Features

- › Intel® 12th Gen. Core® CPU
- › Up to 32GB DDR4 SODIMM
- › USB 3.2 Gen 2 x 3 (10Gbps) + USB 2.0 x 1
- › 1x 2.5GbE LAN + 1x GbE LAN
- › M.2 3052 B-Key for 5G Support
- › Onboard TPM 2.0
- › Wide temperature operation (-20°C to 60°C)

BRANDNEW



2x HDMI 1.4b



Powered by 12th Generation Intel® Core™/Celeron®



Fanless operation

Space-efficient and powerful

The BOXER-6451-ADP is an exceptionally small, yet powerful fanless embedded PC powered by 12th Generation Intel® Core™/Celeron® processors (formerly Alder Lake-P U15). Channeling its high-level CPU capabilities through a fast, vast array of connectors for unmatched peripheral device function, the BOXER-6451-ADP is expertly designed for AMR, kiosk, and smart manufacturing applications. Designed with a new, innovative cooling structure, the BOXER-6451-ADP effortlessly accelerates heat transfer to facilitate heavier workloads. Additionally, the BOXER-6451-ADP gives users 5G, Wi-Fi, and NVMe functionality through the system's unprecedented expandability, making it the perfect compact solution for bringing high performance to any project.

Measuring just 7.48" x 4.37" x 2.5" (190mm x 111mm x 63.5mm), the BOXER-6451-ADP offers superb performance in a smaller package, with up to 10 cores and 12 threads of 12th Generation Intel® Core™ processing power in a small chassis that can be deployed in more compact spaces, ideal for powering applications such as kiosks and charging stations.

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Compact 8 fanless Box PC with Intel® 12th Gen. Core CPU

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SYSTEM

Processor	Intel® Core™ i7-1265UE Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE
Chipset	Intel® SoC
Memory	Up to 32GB DDR4 SODIMM
Storage Device	1x 2.5" SATA Drive Bay 1x M.2 2280 M-Key (4x PCIe)
OS support	Windows® 10 IoT Ent LTSC Windows® 11 PRO Ubuntu 22.04

I/O

Ethernet	1x RJ-45 for 2.5GbE (Intel® I226-LM) , 1x RJ-45 for GbE (Intel® I219-LM)
USB	4x USB 3.2 Gen1 (5 Gbps) ports 2x USB 2.0 ports
Video	2x HDMI 1.4b (Type-A)
Serial port	4x DB-9 for RS-232/422/485
Other	1x Power Button with LED 6x Antenna Opening
Expansion	1x M.2 2230 E-Key (Wi-Fi/BT) 1x M.2 3052 B-Key w/ SIM (LTE/5G) 1x M.2 2280 M-Key (NVMe)

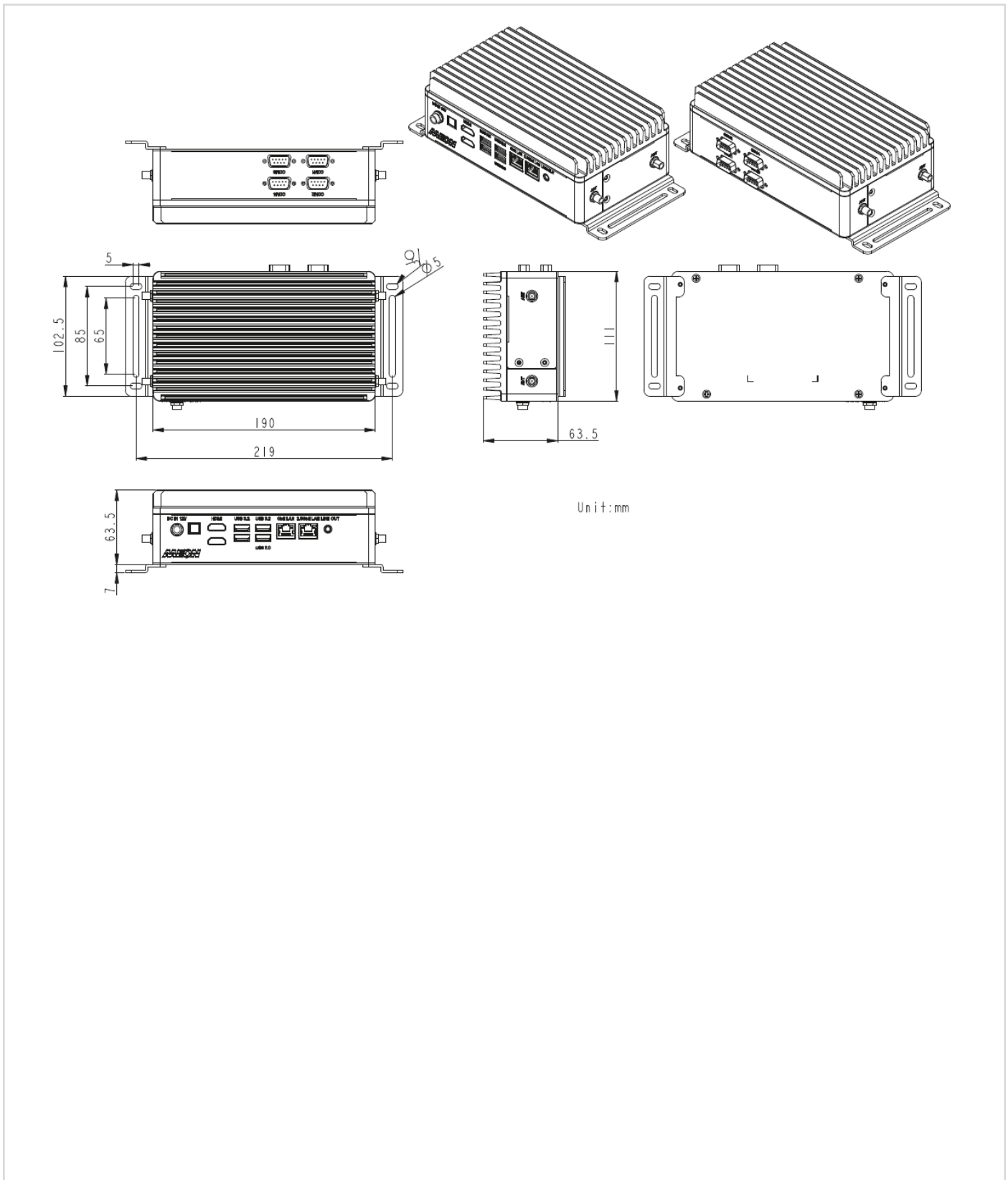
MECHANICAL

DC Input	DC Jack 12V Input (lockable)
Dimensions	195 mm (W) x 63.5mm (D) x 111 mm (H) w/o bracket
Weight	2 kg (gross weight), 1.5kg (net weight)
Mounting	Wall-mount
Operating temperature	-20°C ~ 60°C, IEC68-2 with 0.5 m/s AirFlow with wide temperature memory/storage
Storage temperature	-40°C ~ 80°C
Humidity	5% ~ 95% @ 40 °C, non-condensing
Vibration	SSD: Random, 3Grms, 5~500Hz
Shock	SSD: 50G @ wallmount, Half-sine, 11ms
Certifications	CE/FCC Class A

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Appearance and dimensions (mm)



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Ordering information

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MODEL NO.

BOXER-6451-ADP-A1-1010	i3-1215UE, SoC, 2x LAN, 3x USB 3.2 (10 Gbps), 1x USB 2.0, 4x RS-232/422/485, 1x Audio Line-out, 1x 2.5" SATA Drive Bay, 1x M.2 2280 M-Key (NVMe), 2x HDMI, 1x M.2 2230 E-Key, 1x M.2 3052 B-Key w/ SIM Slot, Wallmount, 12V, -20°C ~ 60C with 0.5 m/s airflow, with wide temperature memory/storage
BOXER-6451-ADP-A2-1010	i5-1245UE, SoC, 2x LAN, 3x USB 3.2 (10 Gbps), 1x USB 2.0, 4x RS-232/422/485, 1x Audio Line-out, 1x 2.5" SATA Drive Bay, 1x M.2 2280 M-Key (NVMe), 2x HDMI, 1x M.2 2230 E-Key, 1x M.2 3052 B-Key w/ SIM Slot, Wallmount, 12V, -20°C ~ 60C with 0.5 m/s airflow, with wide temperature memory/storage
BOXER-6451-ADP-A3-1010	i7-1265UE, SoC, 2x LAN, 3x USB 3.2 (10 Gbps), 1x USB 2.0, 4x RS-232/422/485, 1x Audio Line-out, 1x 2.5" SATA Drive Bay, 1x M.2 2280 M-Key (NVMe), 2x HDMI, 1x M.2 2230 E-Key, 1x M.2 3052 B-Key w/ SIM Slot, Wallmount, 12V, -20°C ~ 60C with 0.5 m/s airflow, with wide temperature memory/storage

PACKING LIST

BOXER-6451-ADP	2x wallmount bracket, 1x screw package, 84W 12V power adapter, BOXER-6451-ADP
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OPTIONAL ACCESSORIES

1702031802	Power cord (US type)
1702031803	Power cord (European type)
170203180E	Power cord (Japanese type)