

BOXER-8652AI

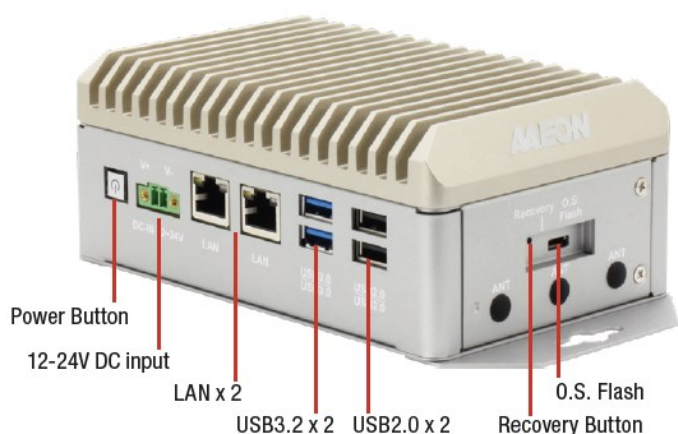
AI@Edge compact and fanless embedded AI system with NVIDIA® Jetson Orin™ NX

Features

- > NVIDIA® Jetson Orin™ NX AI accelerator
- > 8GB LPDDR5
- > Supports 1x M.2 E-Key, 1x M.2 B-Key, 1x M.2 M-Key
- > Supports 1x DB-9 for CANBus
- > Supports 2x GbE LAN
- > Wide temperature operation (-15°C to 60°C)



BRAND-NEW

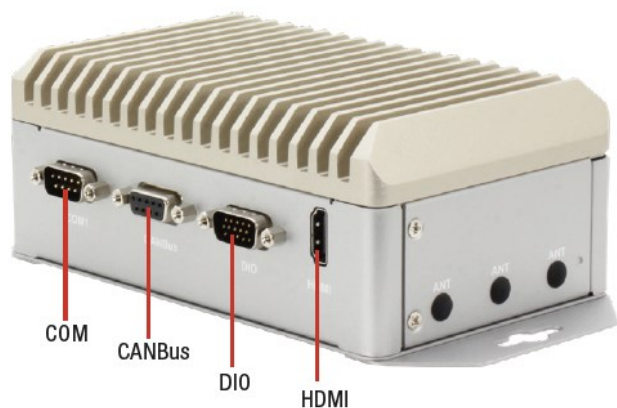


Compact and powerful box PC for AI@Edge

The fanless box PC BOXER-8652AI features the new NVIDIA® Jetson Orin™ NX and scales AI potential to a new level. The BOXER-8652AI combines the advanced performance of the NVIDIA® Jetson Orin™ NX with an incredibly rugged enclosure, unlocking the door to embedded solutions that were previously impossible. The device has a host of features that make it ideal for computer vision and speech processing applications, including high processing power, fast data transfer, and a user-friendly interface. With this embedded box PC, users can run complex algorithms and process data in real time to make faster and more accurate decisions and develop innovative AI applications.

Combining an 8-core ARM® Cortex®-A78AE v8.2 64-bit CPU and NVIDIA® Ampere architecture, the BOXER-8652AI leverages the full potential of the NVIDIA® Jetson Orin™ NX with 1792 CUDA® and 56 tensor cores for up to 100 TOPS, delivering up to 8x the AI performance of its predecessor. The BOXER-8652AI's processing speed and inference capability move the object recognition function from GPU cards directly to the edge.

The system features an extended temperature range of -15°C to 60°C and comes in a rugged metal enclosure that ensures reliable performance in demanding environments. Furthermore, the system comes with two GbE LAN and three USB 3.2 ports, as well as 8GB LPDDR5x system memory and M.2 keys that support 5G, Wi-Fi and NVMe.



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SYSTEM

Processor	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
AI Accelerator	NVIDIA® Jetson Orin™ NX
Memory	8GB LPDDR5
Storage Device	1x M.2 2280 M-Key
OS support	Linux (NVIDIA Jetpack™ 5.0 up)

I/O

Ethernet	2x RJ-45 for 10/100/1000 Base-T
USB	2x USB 3.2 Gen2 (Type-A) 2x USB 2.0 (Type-A)
Video	1x HDMI 2.0 (Type-A)
Serial port	1x DB-9 for CANbus 1x DB-9 for RS-232/422/485 1x DB-15 for 13-bit DIO 1x Micro USB for OS Flash
Other	1x Recovery Button 1x Power ON/OFF switch 1x Power LED 6x Antenna hole
Expansion	1x M.2 2230 E-Key (Wi-Fi/Bluetooth) 1x M.2 3042/3052 B-Key (4G/5G) 1x M.2 2280 M-Key

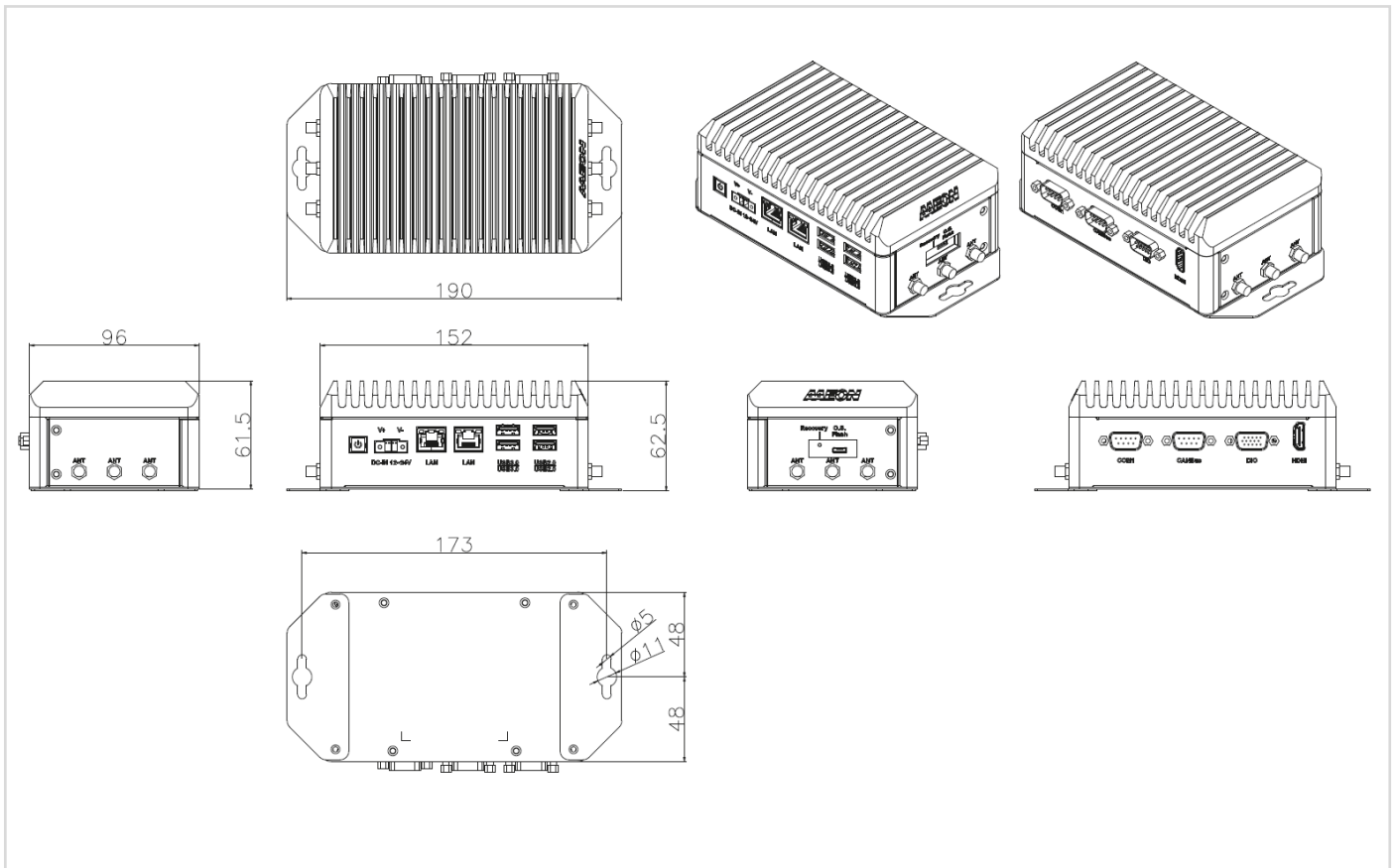
MECHANICAL

DC Input	12V~24V DC in with 2-pin terminal block
Dimensions	152 mm (W) x 96 mm (D) x 61.5 mm (H)
Weight	1.8 kg (gross weight), 1.2 kg (net weight)
Mounting	Wall-mount kit
Operating temperature	-15°C ~ 60°C with 0.5 m/s AirFlow
Storage temperature	-40°C ~ 85°C
Humidity	5% ~ 95% @ 40 °C, non-condensing
Vibration	3.5Grms / 5-500Hz
Shock	50G peak acceleration
Certifications	CE/FCC Class A

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Appearance and dimensions (mm)



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Ordering information

BOXER-8652AI

MODEL NO.

BOXER-8652AI-JP511N-A1-1010 NVIDIA® Jetson Orin™ NX, 2x LAN, 2x USB 3.2 Gen 2, 2x USB 2.0, 1x RS-232/422/485, 1x CANBus, 13x DIO, 1x M.2 2280 M-key for storage (default: 128GB), 1x HDMI, wall-mount, 12 ~ 24VDC w/ 2 pin terminal block, Linux (NVIDIA Jetpack™ 5.0 or above)

PACKING LIST

BOXER-8652AI

2x Wall-mount bracket
 1x Screw package
 1x Power connector
 1x BOXER-8652AI

OPTIONAL ACCESSORIES

1255300611

60W power adapter

1702031802

Power Cord (US type)

1702031803

Power Cord (European Type)

170203180E

Power Cord (Japanese Type)