

BOXER-8621AI

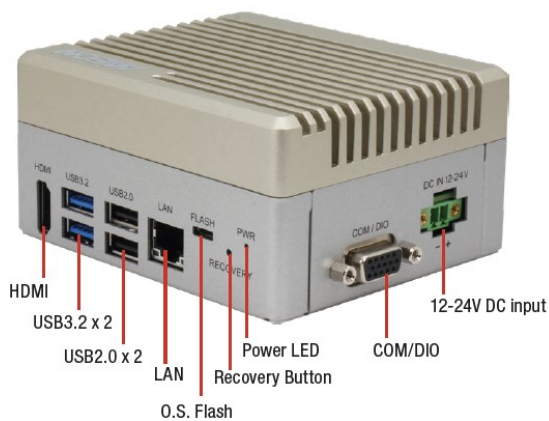
AI@Edge compact and fanless embedded PC with NVIDIA® Jetson Orin Nano™

Features

- › NVIDIA® Jetson Orin Nano™ AI accelerator
- › 1x M.2 2230 E-Key and 1x M.2 3052 B-Key expansion
- › 2x USB 3.2. Gen 2 and 2x USB 2.0 (Type-A)
- › 1x M.2 2280 M-Key, 1x M.2 2230 E-Key
- › COM, DIO, CANBus
- › Wide temperature operation (-15°C to 60°C)



BRAND-NEW



The ultimate edge computing solution

Meet the brand-new BOXER-8621AI, the compact powerhouse designed to redefine edge computing. Equipped with the unparalleled performance of the NVIDIA® Jetson Orin Nano™, this fanless AI system brings intelligence to the edge, whether it's in a vehicle navigating complex routes or in a bustling factory optimizing production processes.

Its compact size and remarkable durability make it the ideal choice for challenging environments, ensuring seamless operation even in demanding conditions. The BOXER-8621AI is engineered with intricate communication protocols, including one GbE LAN and four USB ports tailored for camera support. With a wide temperature range of -15°C to 60°C, this system is offering consistent performance under extreme heat or freezing conditions. Moreover, its versatile expansion options for 5G, LTE, and Wi-Fi empower you to stay connected and in control.

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SYSTEM

Processor	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
AI Accelerator	NVIDIA® Jetson Orin Nano™
Memory	4GB LPDDR5
Storage Device	1x M.2 3052 B-Key for M.2 2242 B+M Key SSD (Default Storage) 1x M.2 2230 E-Key (Optional)
OS support	Linux (NVIDIA Jetpack™ 5.0 up)

I/O

Ethernet	1x RJ-45 for GbE LAN
USB	2x USB 3.2 Gen2 (Type-A) 2x USB 2.0 (Type-A)
Video	1x HDMI 1.4 (Type-A)
Serial port	1x DB-9 for RS-232 (Rx/Tx/CTS/RTS)/485 and 1x CANBus FD 1x DB-15 for RS-232 (Rx/Tx)/422/485 and 8x DIO
Other	1x Micro USB for OS Flash 1x Recovery Button 2x Antenna 1x Power LED
Expansion	1x M.2 3042/3052 B Key (4G/5G/M.2 2242 B+M Key storage) 1x M.2 2230 E Key (Wifi/BT/Storage) 1x SIM Slot

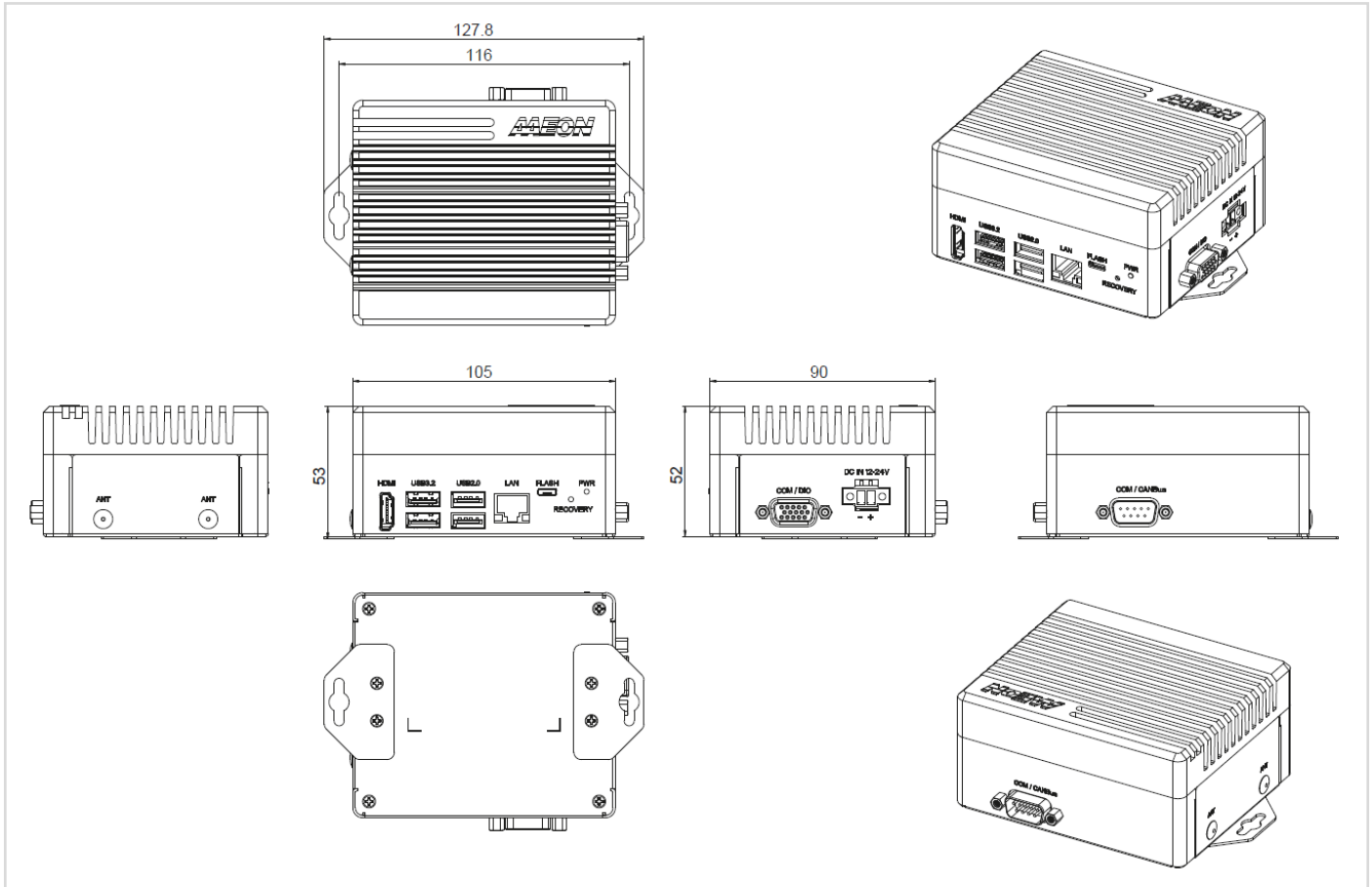
MECHANICAL

DC Input	12V~24V DC in with 2 pins terminal block
Dimensions	105 mm (W) x 90 mm (D) x 52 mm (H) without bracket
Weight	1.1 kg (gross weight), 0.7 kg (net weight)
Mounting	Wall-mount
Operating temperature	-15°C ~ 60°C, according to IEC60068-2 with 0.5 m/s AirFlow
Storage temperature	-40°C ~ 85°C
Humidity	5% ~ 95% @ 40 °C, non-condensing
Vibration	3.5Grms / 5~500Hz / Operation
Shock	50G peak acceleration
Certifications	CE/FCC Class A

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Appearance and dimensions (mm)



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Ordering information

BOXER-8621AI

MODEL NO.

BOXER-8621AI-JP511N-A1-1010 NVIDIA® Jetson Orin Nano™, 1x LAN, 2x USB 3.2 Gen 2, 2x USB 2.0, 2x RS-232/422/485, 1x CANBus, 8x DIO, 1x M.2 3052 B-Key for M.2 2242 B+M-Key SSD (default: 128GB), 1x M.2 2230 E-Key (optional), 1x HDMI, wall-mount, 12 ~ 24VDC w/ 2 pin terminal block, Linux (NVIDIA Jetpack™ 5.0 or above)

PACKING LIST

BOXER-8621AI

2x Wall-mount bracket
 1x Screw package
 1x Power connector
 1x BOXER-8621AI

OPTIONAL ACCESSORIES

1255300611

60W power adapter

1702031802

Power Cord (US type)

1702031803

Power Cord (European Type)

170203180E

Power Cord (Japanese Type)