BOXER-8651AI

BRESSNER
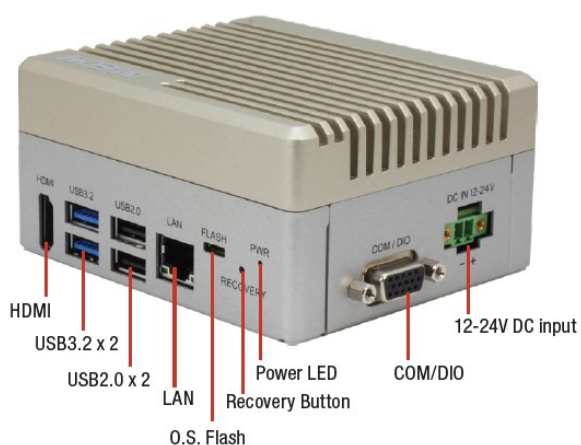A ONE STOP SYSTEMS COMPANY

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

Features

BRAND-NEW

› NVIDIA® Jetson Orin NX AI accelerator
› 8GB LPDDR5
› 1x M.2 2230 E-Key, 1x M.2 3052 B-Key expansion
› 2x USB 3.2 Gen 2 (Type-A), 2x USB 2.0 (Type-A)
› COM, DIO, CANBus
› Wide temperature operation (-15°C to 55°C)

Experience AI brilliance

At just 105mm x 90mm x 52mm, the brand-new BOXER-8651AI is the market's smallest fanless system engineered to leverage the advanced capabilities of the NVIDIA® Jetson Orin™ NX, making it the ultimate platform for bringing AI to the very edge. Easily deployed via wall mount to deliver optimal performance in terms of connectivity and real-time computing, the BOXER-8651AI thrives in even the tightest spaces. The BOXER-8651AI is designed to add value and offer market-ready solutions for projects across various industries, giving your business an advantage not only in sophistication, but also efficiency and speed to market.

Crafted for durability, the BOXER-8651AI excels in challenging environments. Its robust design ensures flawless operation even in the harshest conditions. Enhanced with communication protocols, boasting one GbE LAN and four USB ports, this system takes connectivity to unprecedented levels, setting new benchmarks in seamless performance.

Operating seamlessly in a wide temperature range from -15°C to 55°C, the BOXER-8651AI delivers consistent performance even in extreme heat or freezing cold. Its versatility is evident with expansion options for 5G, LTE, and Wi-Fi, providing you with the freedom to stay connected and in control wherever you go.

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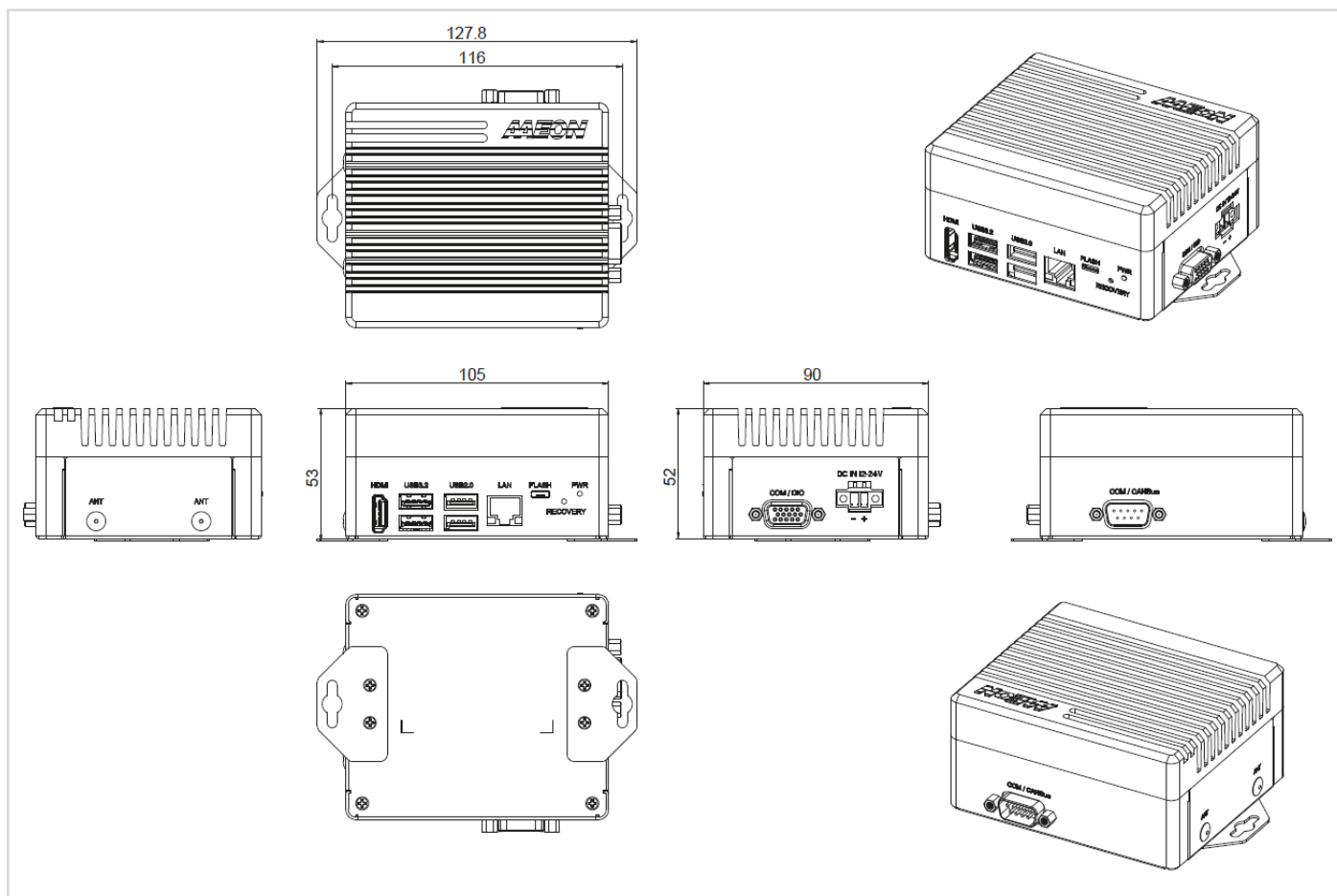| BOXER-8651AI	
SYSTEM	
Processor	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
AI Accelerator	NVIDIA® Jetson Orin NX
Memory	8GB LPDDR5
Storage Device	1x M.2 3052 B-Key for M.2 2242 B+M Key SSD (Default Storage) 1xM.2 2230 E-Key (Optional)
OS support	Linux (NVIDIA Jetpack™ 5.0 up)
I/O	
Ethernet	1x RJ-45 for GbE LAN
USB	2x USB 3.2 Gen2 (Type-A) 2x USB 2.0 (Type-A)
Video	1x HDMI 2.1 (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 1x Micro USB for OS flash
Other	1x Recovery Button 1x Power LED 2x Antenna
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-pin terminal block
Dimensions	105 mm (W) x 90 mm (D) x 52 mm (H) w/o bracket
Weight	1.1 kg (gross weight), 0.7 kg (net weight)
Mounting	Wall-mount
Operating temperature	-15°C ~ 55°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	3.5Grm / 5~500Hz / operation
Shock	50G peak acceleration
Certifications	CE/FCC Class A

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Apperance and dimensions (mm)

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Ordering information

BOXER-8651AI	
MODEL NO.	
BOXER-8651AI-JP511N-A1-1010	NVIDIA® Jetson Orin NX, 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-8651AI	2x Wall-mount bracket 1x Screw package 1x Power connector 1x BOXER-8651AI
OPTIONAL ACCESSORIES	
1255300611	60W power adapter
1702031802	Power Cord (US type)
1702031803	Power Cord (European Type)
170203180E	Power Cord (Japanese Type)