

BOXER-8651AI-PLUS PRELIMINARY

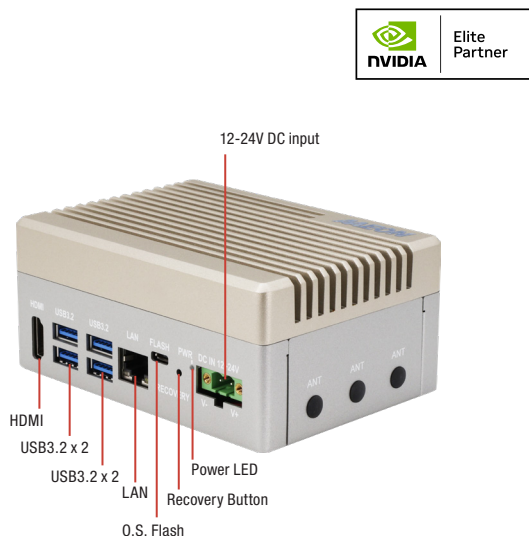
AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin™ NX



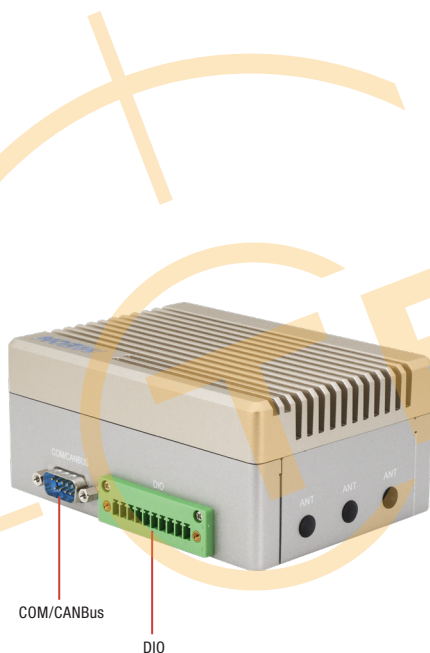
Distributed by:



Front View



Rear View



Features

- NVIDIA® Jetson Orin™ NX
- Supports NVIDIA® JetPack 6.2 Super mode
- USB 3.2 Gen 2 (Type-A) x4
- DB-9 x1 for RS-232(Rx/Tx/RTS/CTS) & CANBus
- 10-Pin header for DIO
- On board TPM as default
- Expansion: M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- Operating Temperature: -13°F ~ 131°F (-25°C ~ 55°C)



Specifications

System	
AI Accelerator	NVIDIA® Jetson Orin™ NX
CPU	Orin NX 8GB: 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU Orin NX 16GB: 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
System Memory	Orin NX 8GB: 8GB LPDDR5 Orin NX 16GB: 16GB LPDDR5
Storage Device	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default Storage) M.2 2230 E-Key x 1 (Optional)
Display Interface	HDMI 1.2 (Type-A) x 1, up to 1920 x 1080
Ethernet	RJ-45 x 1 for GbE LAN
I/O	USB 3.2 Gen 2 (Type-A) x 4 DB-9 for RS-232 (Rx/Tx/CTS/RTS) & CANBus FD x 1 10-Pin header for DIO x 8 Micro USB x 1 for OS Flash Recovery Button x 1 Antenna x 6
Expansion	M.2 3042/3052 B Key x 1 (4G/5G/M.2 2242 B+M Key storage) M.2 2230 E Key x 1 (Wifi/BT) SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 6.2 and above)
Power Supply	
Power Requirement	12~24VDC 2-pin Terminal Block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	4.92" x 3.54" x 2.2" (125 mm x 90 mm x 56 mm)
Gross Weight	3.13lb (1.42kg)
Net Weight	1.85lb (0.84kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C with 0.7m/s airflow)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5 Grms, 5~500Hz with SSD
Anti-Shock	50G peak acceleration
Certification	CE / FCC class A



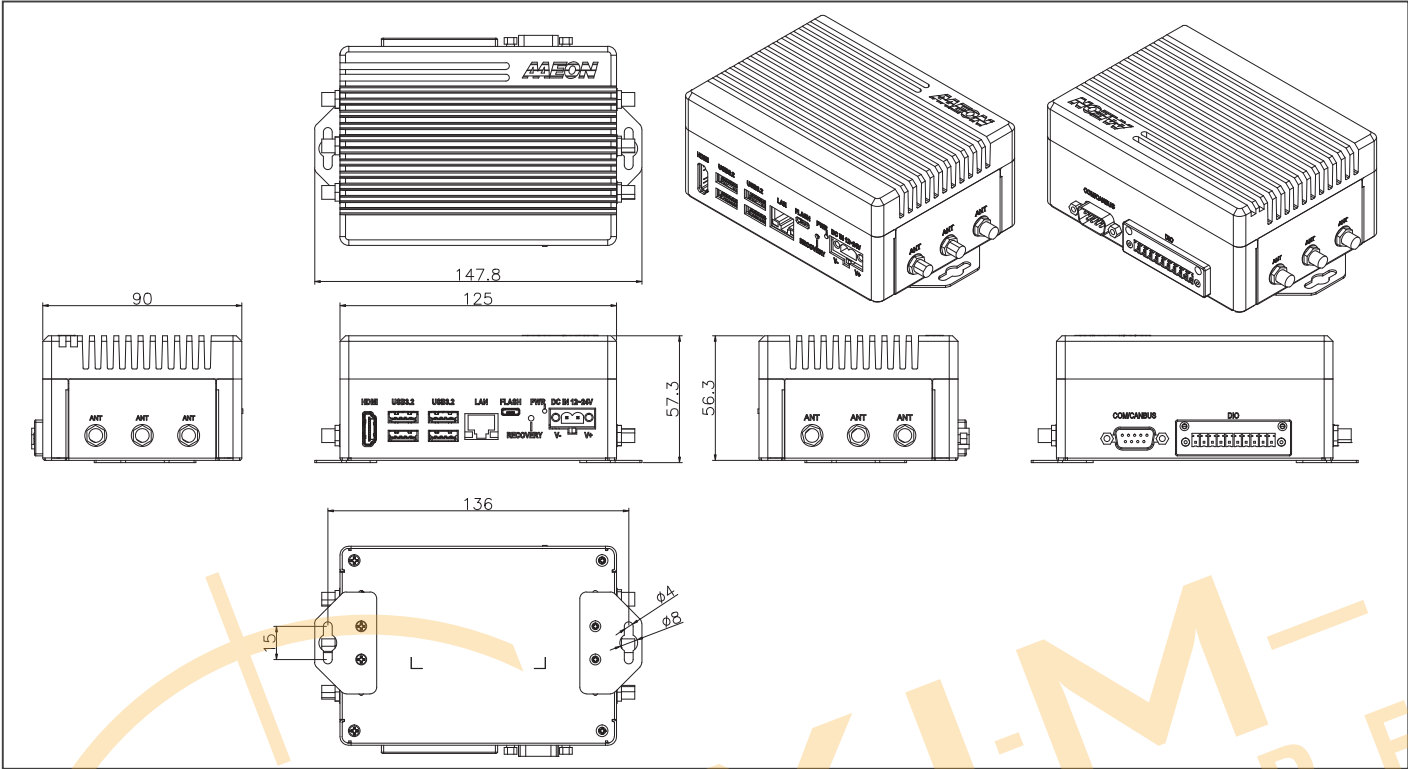
BOXER-8651AI-PLUS

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AI@Edge Solutions

Dimension

Unit: mm



Ordering Information

Part Number	AI SOLUTION	LAN	USB 3.2 Gen 2	RS232/422/485	CANBUS	DIO	Storage	Display	Mounting	Power	Operation System
BOXER-8651AI-JP620N-B1-1010	NVIDIA® Jetson Orin NX™ 8GB	1	4	1	1	8	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default: 128GB) M.2 2230 E-Key x 1 (Optional)	HDMI 2.1 x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2 or above)
BOXER-8651AI-JP620N-B2-1010	NVIDIA® Jetson Orin NX™ 16GB	1	4	1	1	8	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default: 128GB) M.2 2230 E-Key x 1 (Optional)	HDMI 2.1 x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2 or above)
BOXER-8651AI-JP620N-B3-1010	NVIDIA® Jetson Orin NX™ 8GB	1	4	1	1	8	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default: 128GB) M.2 2230 E-Key x 1 (Optional)	HDMI 2.1 x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2 or above), MAZU Security Support

Packing List

- BOXER-8651AI-B1
- Wallmount Bracket x 2
- Screw Package x 1

Optional Accessories

- 1255300611
60W Power Adapter
- 170X000799
Power Cord (US type)
- 170X000800
Power Cord (European Type)
- 170X000803
Power Cord (Japanese Type)

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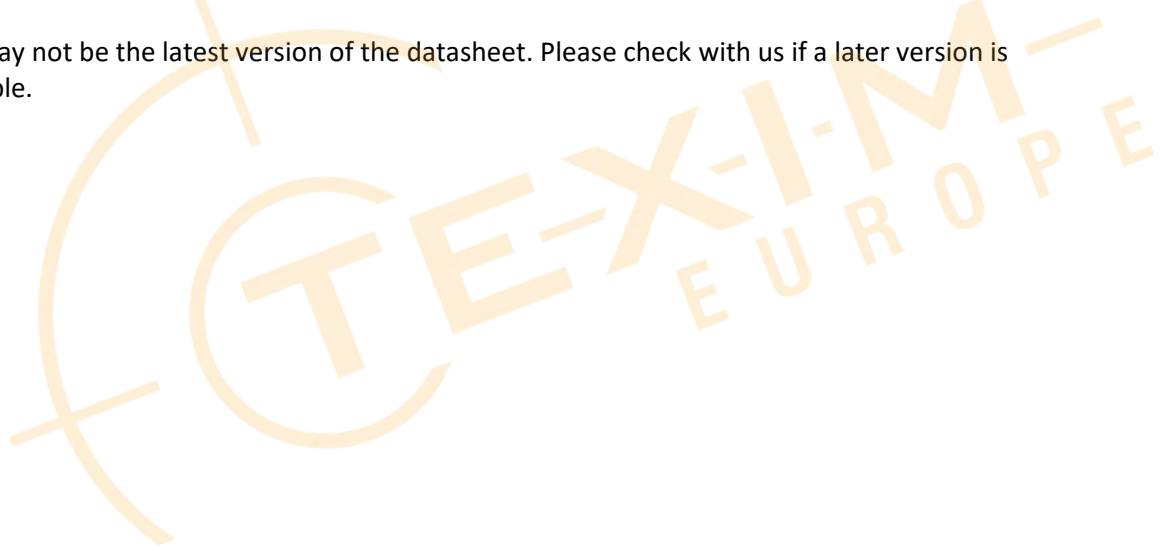
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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