

BOXER-8655AI

PRELIMINARY

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

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Front View



Rear View



Features

- NVIDIA® Jetson Orin NX
- GMSL2 with FAKRA Connectors x 8
- Giga LAN x 5
- TPM, 9-Axis sensor and GPS
- 9V ~ 48V DC in with ACC Ignition Delay On/Off
- Military Standard Vibration and Shock
- E-Mark Certified



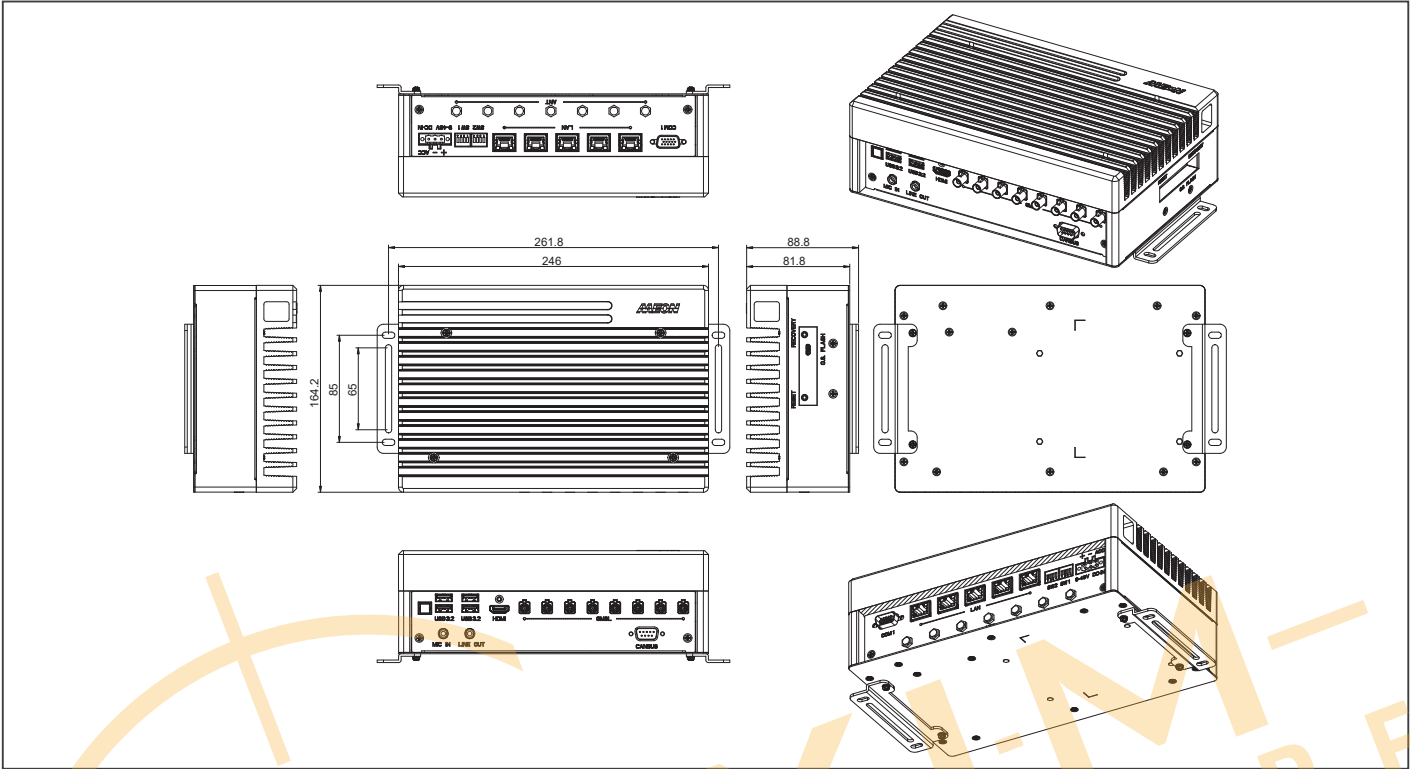
Specifications

System	
AI Accelerator	NVIDIA® Jetson Orin™ NX
CPU	Orin NX 8GB : 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 Orin NX 16GB : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
System Memory	Orin NX 8GB : 8GB LPDDR5 Orin NX 16GB : 16GB LPDDR5
Storage Device	M.2 2280 M-Key x 1 (NVMe) 2.5" SATA Driver Bay x 1
Display Interface	HDMI 2.1 x 1
Ethernet	RJ-45 for GbE LAN x 5
I/O	GMSL2 x 8 with Fakra connectors DB-9 x 1 for CANBus FD DB-15 for RS232 (Rx/Tx)/RS422/RS485 x 1, programmable DIO x 8 External SMA antenna x 7 Power button x 1 Recovery button x 1 Micro USB x 1 for OS Flash Mic in and Line out x1 Reset button x1 USB Type A for USB 3.2 Gen 2 x 4
Expansion	M.2 2230 E-Key x 1 (Wifi/BT) M.2 3042/3052 B-Key x 1 (LTE/5G) (USB 2.0,USB3.0) M.2 2280 M-Key x 1 (NVMe) 2.5" SATA x 1
Indicator	Power LED
OS Support	Linux (NVIDIA JetPack™ 5.1 and above)
Power Supply	
Power Requirement	3-pin Terminal Block x 1 for 9V ~ 48V ACC Ignition Delay On/Off
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	9.68 " x 6.46 " x 3.49" (246.0 mm x 164 .2 mm x 88.8 mm)
Gross Weight	TBD
Net Weight	TBD
Environmental	
Operating Temperature	5°F ~ 158°F (-15°C ~ 70°C with 0.7 m/s airflow)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	MIL-STD-810G, 514.6C Procedure 1, Category 4 Trucker/Semitrailer on US highway (Figure 514.6C-1-Category 4-Common carrier)
Anti-Shock	MIL-STD-810G, Method 516.6, Procedure I, flight vehicle equipment
Certification	E-Mark, CE/FCC Class A



Dimension

Unit: mm



Ordering Information

Part Number	AI SOLUTION	LAN	USB 3.2 Gen 2	COM	CANBUS	DIO	Storage	Display	Expansion	Mounting	Power	Operation System
BOXER-8655AI-JP511N-A1-1010	NVIDIA® Jetson Orin NX 8GB	5	4	1	1	8	M.2 2280 M-Key x 1 (Default: 128GB) 2.5" SATA Drive Bay x 1	HDMI x 1	M.2 2230 E Key x 1 (Wifi/BT) M.2 3042/3052 B Key x 1 (LTE/5G) M.2 2280 NVMe M Key x 1	Wallmount	9 ~ 48VDC w/ 3 pin terminal block and Ignition delay on/off	NVIDIA Jetpack™ 5.1.2 and above
BOXER-8655AI-JP511N-A2-1010	NVIDIA® Jetson Orin NX 16GB	5	4	1	1	8	M.2 2280 M-Key x 1 (Default: 128GB) 2.5" SATA Drive Bay x 1	HDMI x 1	M.2 2230 E Key x 1 (Wifi/BT) M.2 3042/3052 B Key x 1 (LTE/5G) M.2 2280 NVMe M Key x 1	Wallmount	9 ~ 48VDC w/ 3 pin terminal block and Ignition delay on/off	NVIDIA Jetpack™ 5.1.2 and above

Packing List

- BOXER-8655AI x 1
- Wallmount Bracket x 2
- Power connector x 1
- Screw Package x 1

Optional Accessories

- TBD

Disclaimer

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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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