

# BOXER-8641AI-PLUS

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

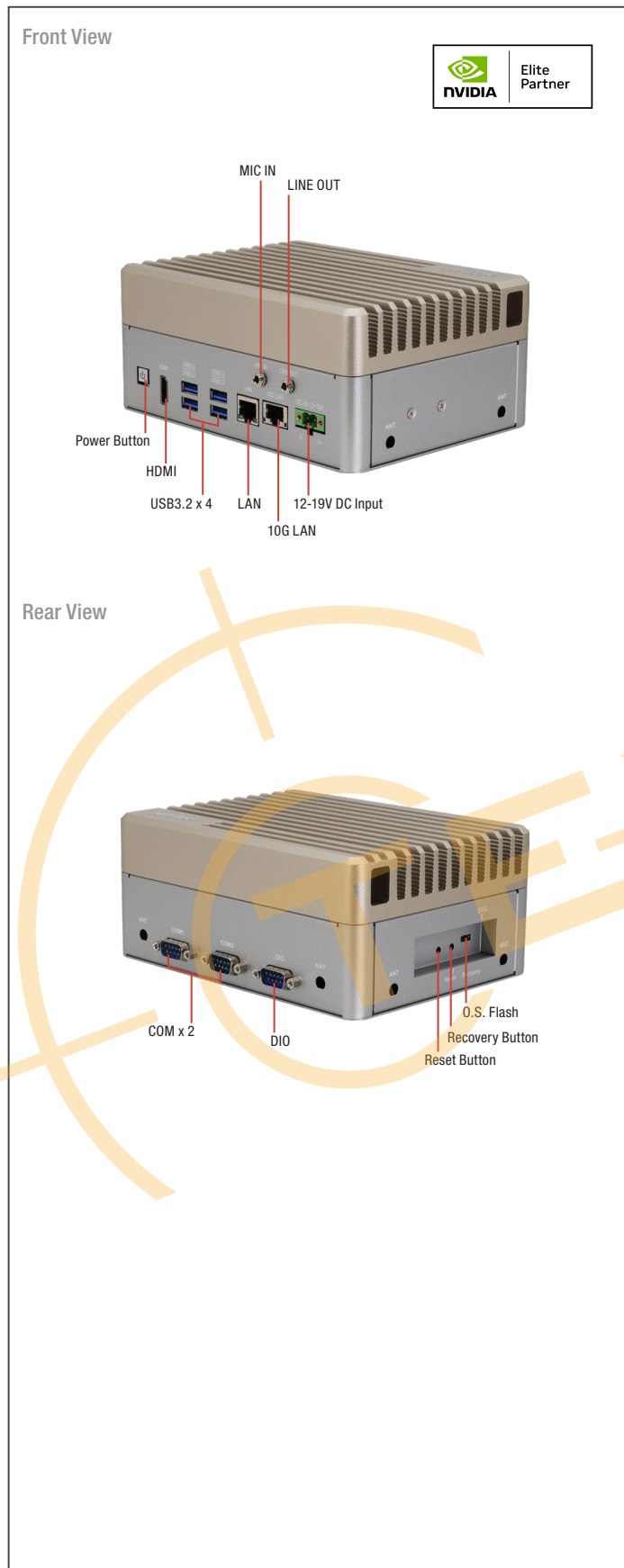


Distributed by:



## Features

- NVIDIA® Jetson AGX Orin™
- Giga LAN x 1, 10G LAN x 1
- USB 3.2 Gen 2 (Type-A) x 4
- DB-9 x 1 for DIO x 8
- DB-9 x 2 for RS-232/422/485(Rx/Tx/RTS/CTS)



## Specifications

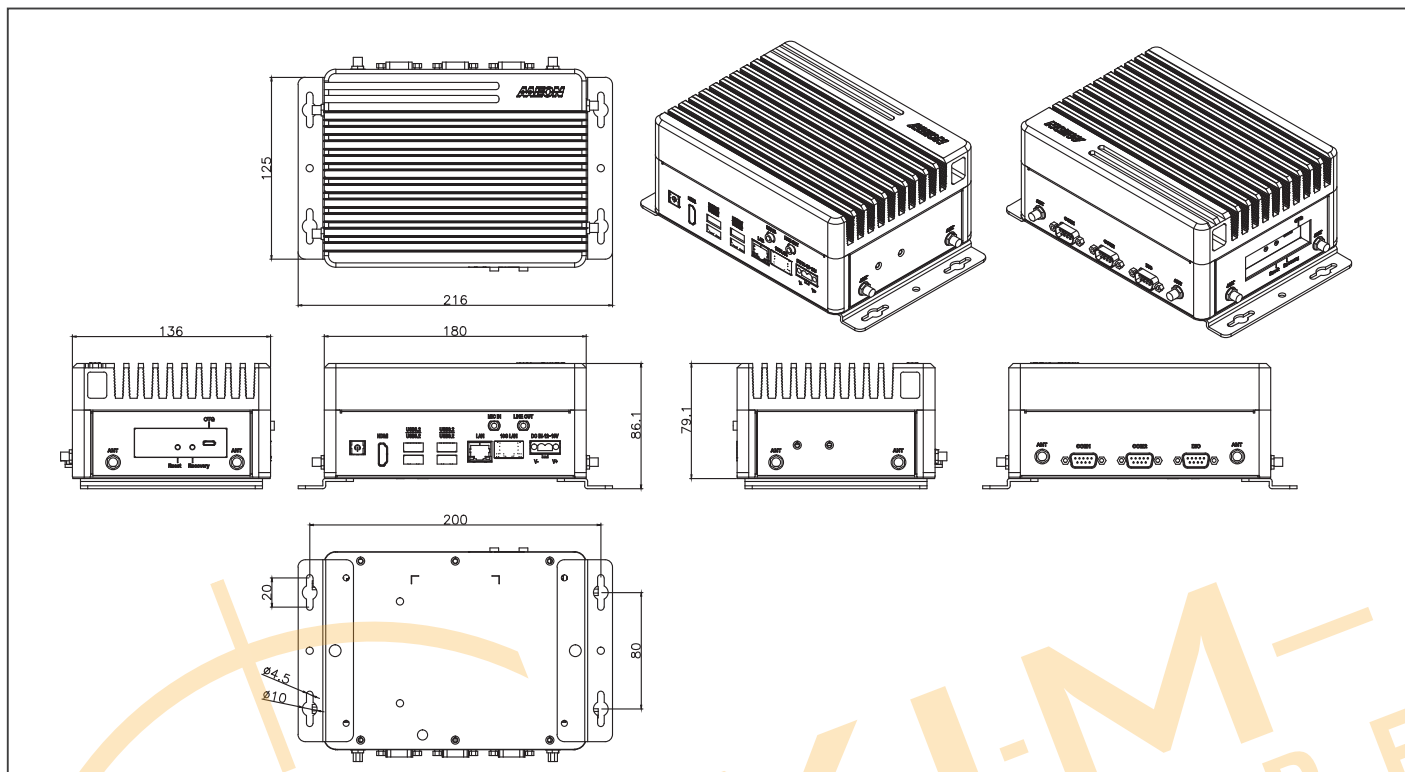
System	
AI Accelerator	NVIDIA® Jetson AGX Orin™
CPU	AGX Orin 32GB: 8-core Arm® Cortex®-A78AE CPU AGX Orin 64GB: 12-core Arm® Cortex®-A78AE CPU
System Memory	32GB LPDDR5 64GB LPDDR5
Storage Device	64GB eMMC 5.1 x 1 MicroSD slot x 1 2.5" SATA drive bay x 1
Display Interface	HDMI Type A for HDMI 2.0 x 1
Ethernet	RJ-45 for Giga LAN x 1 RJ-45 for 10G LAN x 1
I/O	USB 3.2 Gen 2 (Type-A) x 2 (from SoM) USB 3.2 Gen 2 (Type-A) x 2 (from Hub) DB-9 x 2 for RS-232/422/485(Rx/Tx/RTS/CTS) DB-9 x 1 for DIO x 8 Micro USB x 1 for OS Flash Mic in and Line out x 1 MicroSD Card Slot x 1 Antenna Opening x 6 Reset Button x 1 Recovery Button x 1 Power Button x 1 OOB Connector x 1 TPM 2.0 x 1
Expansion	M.2 2230 E-Key x 1 M.2 3052 B-Key x 1 M.2 2280 M-Key x 1 2.5" SATA Drive Bay x 1 SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 6.0 and above)
Power Supply	
Power Requirement	12~19VDC 2-pin Terminal Block
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	7.09" x 5.35" x 3.11" (180mm x 136mm x 79.1mm)
Gross Weight	7.8 lb. (3.55kg)
Net Weight	5.5 lb. (2.5kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°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	3.5 Grms, 5~500Hz with SSD
Anti-Shock	50G peak acceleration
Certification	CE / FCC class B



# BOXER-8641AI-PLUS

## Dimension

Unit: mm



## Ordering Information

Part Number	AI Solution	Giga LAN	10G LAN	USB	RS-232/422/485	DIO	Display	Storage	Mounting	Power	Operating System
BOXER-8641AI-B1-JP600E-A1-1010	NVIDIA® Jetson AGX Orin™ 32GB	1	1	3.2 Gen 2 x 4	2	8	HDMI x 1	64GB eMMC + MicroSD + 2.5"SATA + M.2 2280 M Key	Wall mount	12 ~ 19VDC w/ 2 pin terminal block	JetPack™ 6.0.0
BOXER-8641AI-B1-JP600E-A2-1010	NVIDIA® Jetson AGX Orin™ 64GB	1	1	3.2 Gen 2 x 4	2	8	HDMI x 1	64GB eMMC + MicroSD + 2.5"SATA + M.2 2280 M Key	Wall mount	12 ~ 19VDC w/ 2 pin terminal block	JetPack™ 6.0.0

## Packing List

- BOXER-8641AI-B1
- Wallmount Bracket x 2
- Screw Package x 1

## Optional Accessories

- 170X000799  
Power Cord (US type)
- 170X000800  
Power Cord (European Type)
- 170X000803  
Power Cord (Japanese Type)

## **Disclaimer**

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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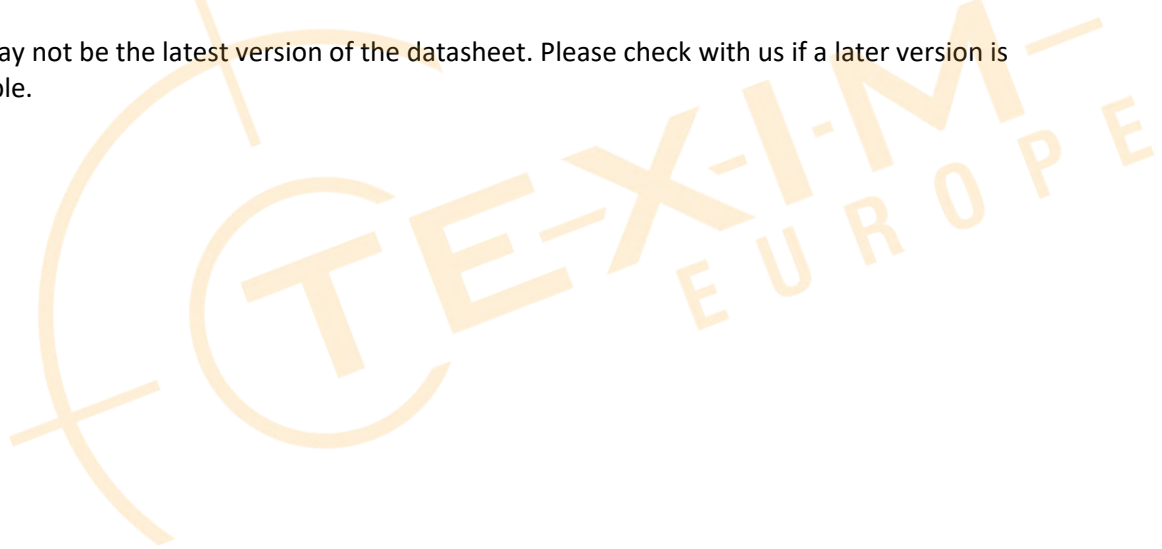
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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