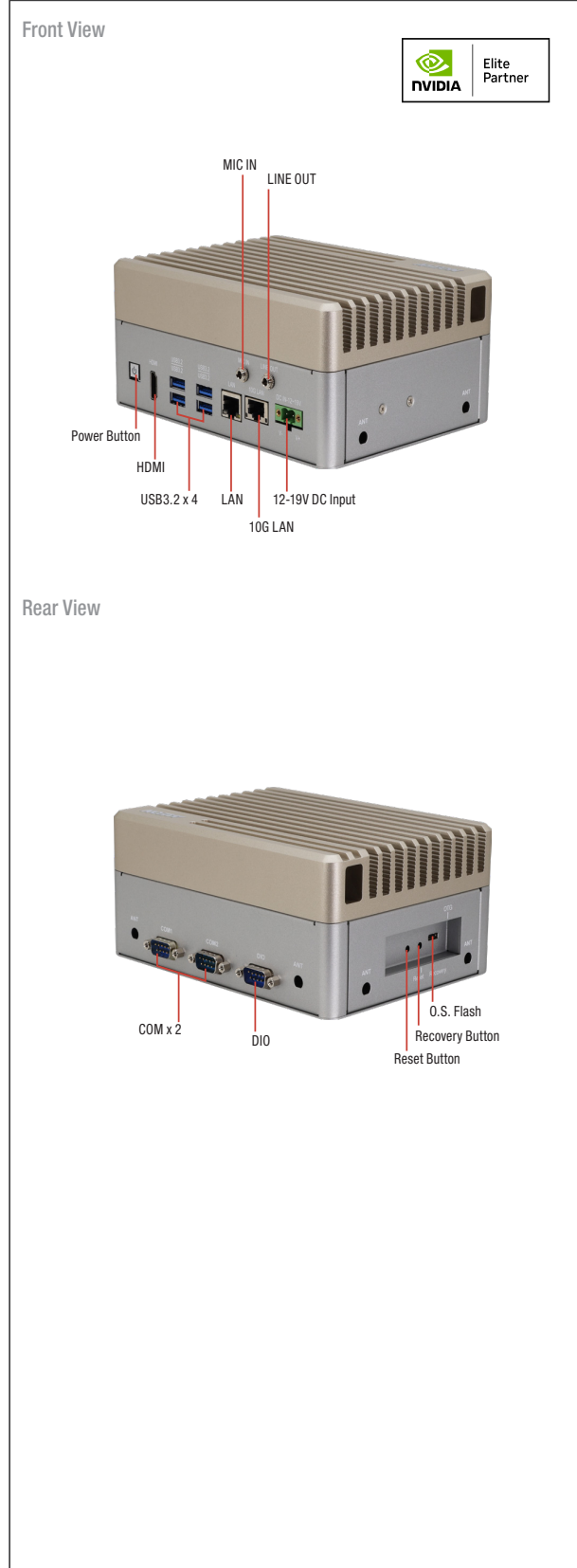


# BOXER-8641AI-PLUS

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



AI@Edge Solutions



## 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



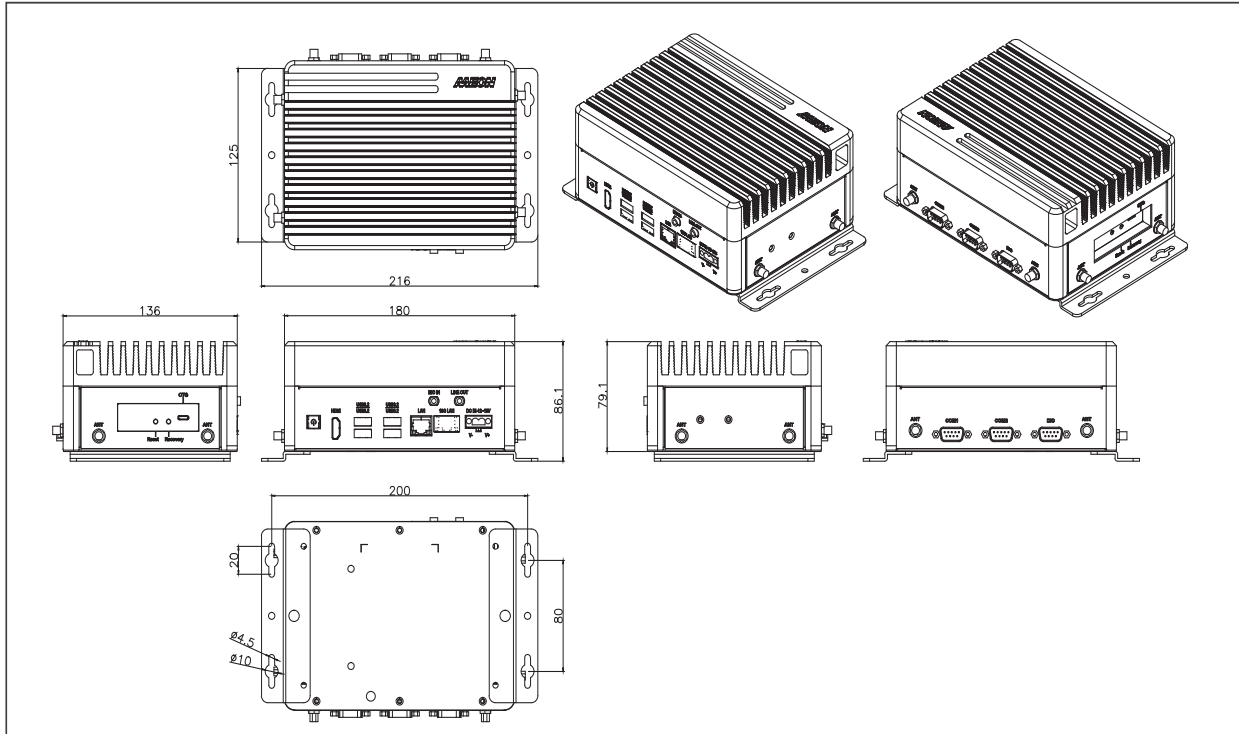
# BOXER-8641AI-PLUS

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## 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)

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660