

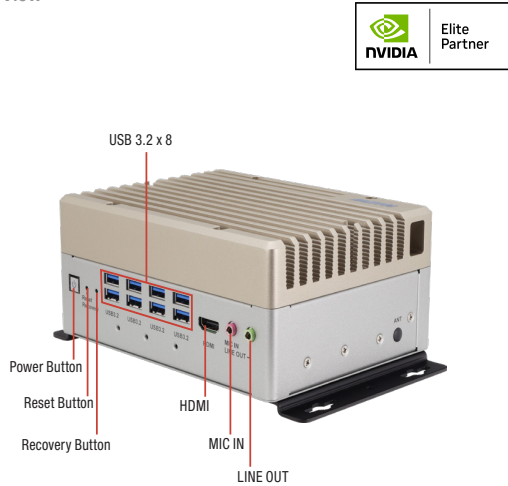
# BOXER-8642AI

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

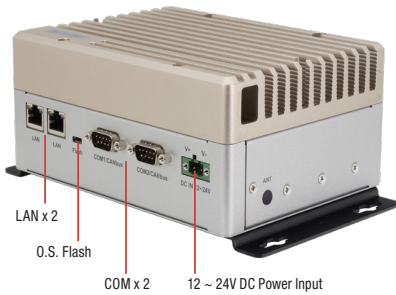


AI@Edge Solutions

Front View



Rear View



## Features

- NVIDIA® Jetson AGX Orin™
- USB 3.2 Gen 2 (Type-A) x 8 (Independent 10Gbps)
- Intel® RealSense™ Depth Camera D405 Support
- GbE LAN x 2
- DB-9 x 2 for RS-232/422/485(Rx/Tx) & CANBus FD
- M.2 E-Key, eMMC and SATA storage



## 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 2.5" SATA SSD drive bay x 1
Display Interface	HDMI 2.0 x 1
Ethernet	RJ-45 x 2 for GbE LAN
I/O	USB 3.2 Gen 2 (Type-A) x 8 (Independent 10Gbps) DB-9 x 2 for RS-232/422/485(Rx/Tx) & CANBus FD Mic-in x 1 Line-Out x 1 Power Button x 1 Recovery Button x 1 Micro USB x 1 for OS Flash SMA Antenna Hole x 2
Expansion	M.2 2230 E-Key x 1 (Wi-Fi/BT) 2.5" SATA SSD Bay x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack™ 5.1.2 and above)
Power Supply	
Power Requirement	12V ~ 24V DC-in with 2-pin Terminal Block x 1
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	7.09" x 5.35" x 3.07" (180.0 mm x 136.0 mm x 78 mm)
Gross Weight	7.8lb (3.55kg)
Net Weight	5.5lb (2.5kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C), according to IEC60068-2 with 0.7 m/s AirFlow (w/Industrial wide Temp. SSD)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing, non-operation
Anti-Vibration	3.5 Grms/ 5 ~ 500Hz/ operating
Anti-Shock	50G peak acceleration
Certification	CE/FCC Class A



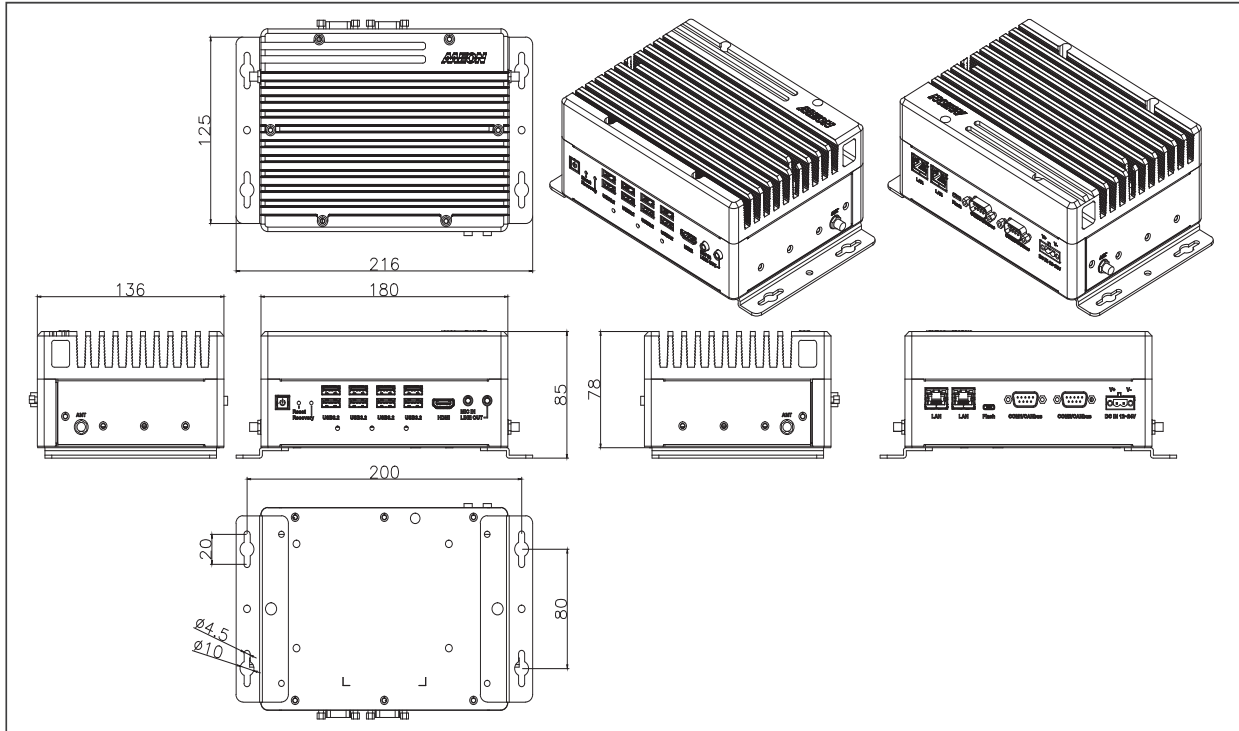
# BOXER-8642AI

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AI@Edge Solutions

## Dimension

Unit: mm



## Packing List

- BOXER-8642AI
- Wallmount Bracket x 2
- Screw Package x 1

## Optional Accessories

- 1255X00066  
120W Power Adapter
- 170X000799  
Power Cord (US type)
- 170X000800  
Power Cord (European Type)
- 170X000803  
Power Cord (Japanese Type)
- 9651864201  
USB Lock Kit

## Ordering Information

Part Number	AI Solution	LAN	USB 3.2 Gen 2	COM	CANbus	Storage	Display	Expansion	Mounting	Power	Operation System
BOXER-8642AI-JP511E-A1-1010	NVIDIA® Jetson AGX Orin™ 32GB	2	8	2	2	64GB eMMC + 2.5" SATA SSD drive bay	HDMI x 1	M.2 2230 E-Key x 1 (Wi-Fi/BT)	Wallmount	12V ~ 24V DC-in with 2-pin Terminal Block	NVIDIA Jetpack™ 5.1.1
BOXER-8642AI-JP511E-A2-1010	NVIDIA® Jetson AGX Orin™ 64GB	2	8	2	2	64GB eMMC + 2.5" SATA SSD drive bay	HDMI x 1	M.2 2230 E-Key x 1 (Wi-Fi/BT)	Wallmount	12V ~ 24V DC-in with 2-pin Terminal Block	NVIDIA Jetpack™ 5.1.1

## 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.

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