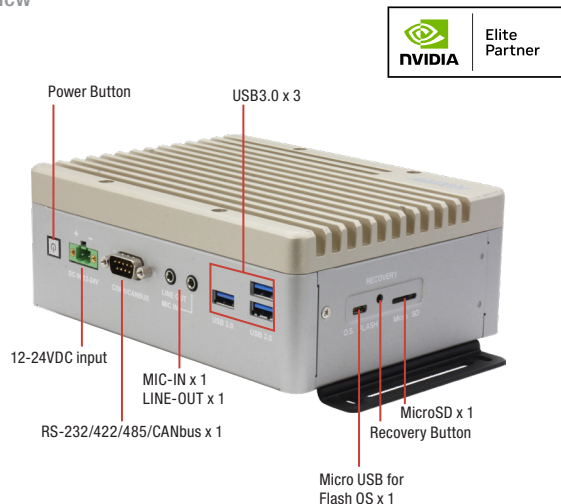




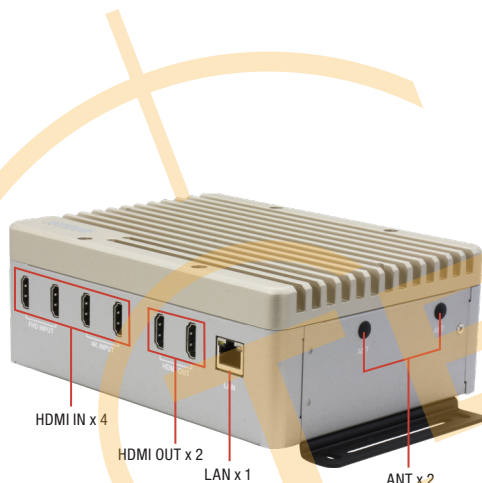
BOXER-8256AI

AI@Edge Fanless Embedded AI System with NVIDIA Jetson Xavier NX, HDMI Input x4

Front View



Rear View



Features

- HDMI x 4 for Video Input 1.4
- HDMI x 2 for Video Display 2.0
- USB Type A x 3 for USB 3.2 Gen 1
- DB9 for RS-232/422/485 (By switch) and CANbus x1
- RJ-45 x 1 for GbE LAN
- M.2 M-Key (PCIEx4)
- M.2 B-Key (PCIEx2 and USB 3.0)
- M.2 E-key (PCIEx1 and USB 2.0)



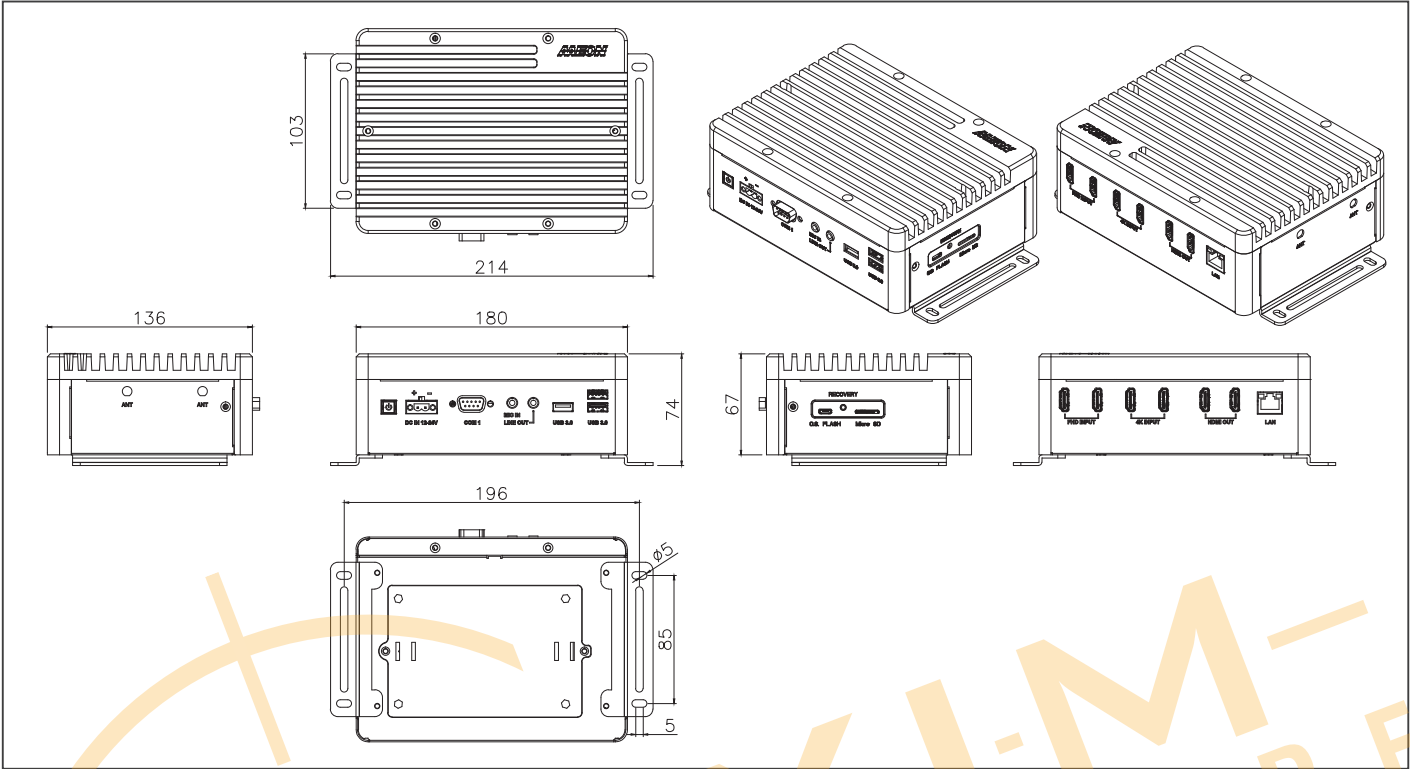
Specifications

System	
AI Accelerator	NVIDIA Jetson Xavier NX
CPU	6-core NVIDIA Carmel Arm®v8.2 64-bit CPU
System Memory	8GB LPDDR4x
Storage Device	16GB eMMC x 1 MicroSD Slot x 1 M.2 M-Key 2280 x 1 (PCIEx4)) 2.5" SATA x 1
Display Interface	HDMI 2.0 x 2
Ethernet	RJ-45 x 1 for GbE LAN
I/O	USB Type A x 3 for USB 3.2 Gen 1 DB9 for RS-232/422/485 (By switch) and CANbus x1 HDMI x 2 for Video Display 2.0 HDMI x 4 for Video Input 1.4 (Limitation have stated in User manual) Mic-in x 1, Line-Out x 1 Micro USB for OS Flash x 1 Power ON/OFF switch x 1 Recovery button x 1 SMA Antenna hole x 2
Expansion	M.2 B-Key 3042/3052 x 1 (PCIEx2] + USB 3.0) M.2 E-key x 1(PCIEx1] + USB 2.0)
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 4.6.2 or above)
Power Supply	
Power Requirement	DC-in 12-24V with 2-pin terminal block
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	7.09" x 5.35" x 2.64" (180 mm x 136 mm x 67 mm)
Gross Weight	4.23 lb (1.92 kg)
Net Weight	2.87 lb (1.3 kg)
Environmental	
Operating Temperature	-5°F ~ 140°F (-15°C ~ 60°C with 0.5 m/s airflow)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5 Grms/ 5 ~ 500Hz/ operation – eMMC
Anti-Shock	50G, IEC 60068-2-27, half sine, 11 ms duration – eMMC
Certification	CE / FCC class A



Dimension

Unit: mm



Ordering Information

Part Number	AI Solution	LAN	USB	CANBus	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.	Operation System
BOXER-8256AI-JP462E-A1-1010	Jetson Xavier NX	1	USB 3.2 Gen 1 x 3	1 (by Switch)	1 (by Switch)	—	Mic-in x 1 Line-Out x 1	16GB eMMC MicroSD slot x 1 M.2 M Key x 1 2.5" SATA x 1	HDMI x 2	M.2 B key x 1 M.2 E key x 1 SATA connector and 5V x 1 COM pin header x 1	Wallmount	DC 12V~24V	-15°C ~ 60°C	NVIDIA Jetpack 4.6.2

Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Power Connector x 1
- BOXER-8256AI

Optional Accessories

- 1255X00023
60W Power Adapter
- 170X000799
Power Cord (US type)
- 170X000800
Power Cord (European Type)
- 170X000803
Power Cord (Japanese Type)

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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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