

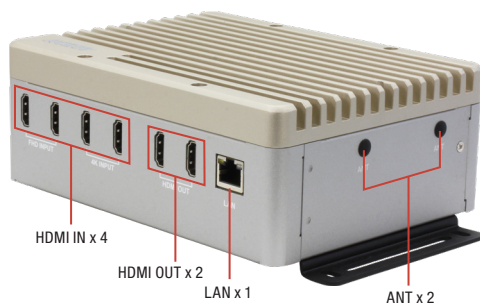
BOXER-8256AI

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

Front View



Rear View



Features

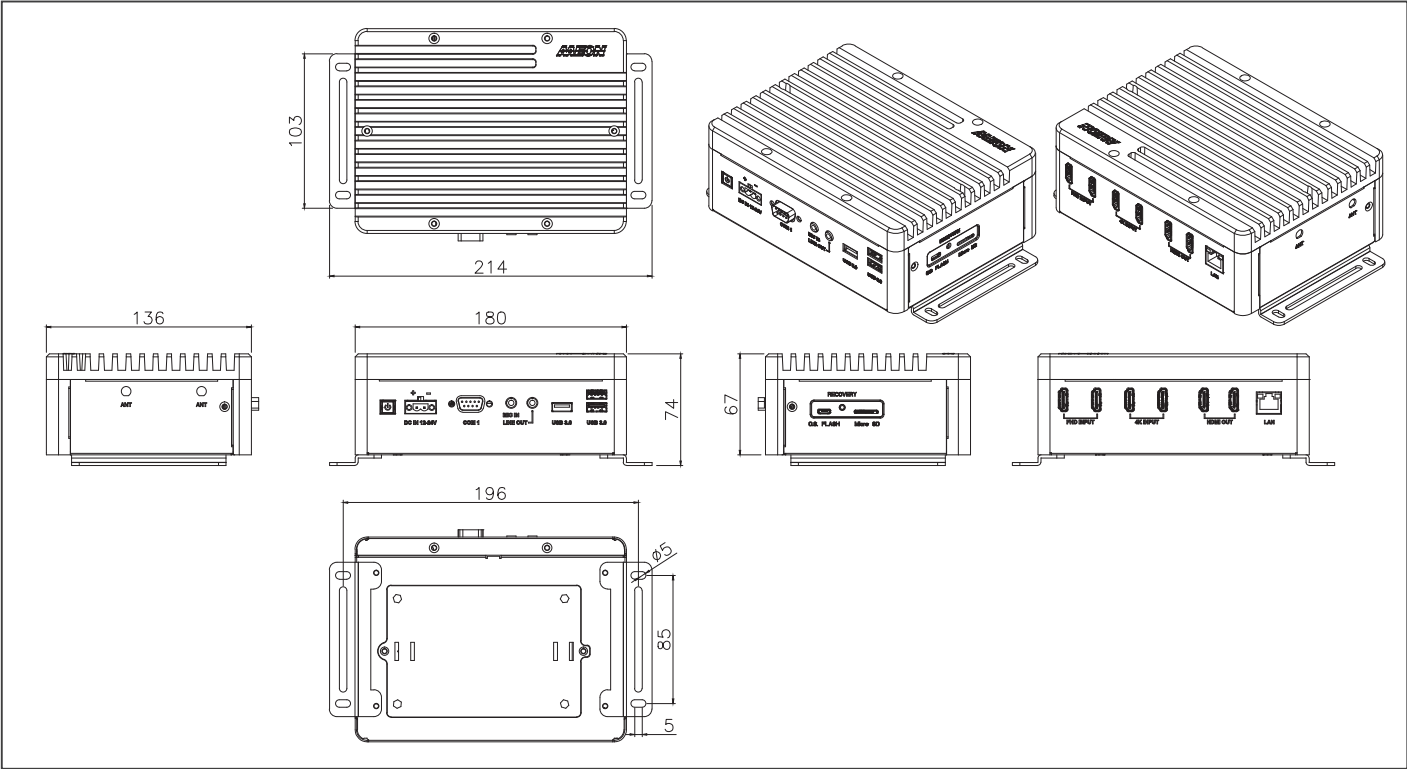
- HDMI x 4 for Video Input 1.4
- HDMI x 2 for Video Display 2.0
- USB Type A x 3 for USB 3.2 Gen 1
- DB9 for RS-232/422/485 (By switch) and CANbus x1
- RJ-45 x 1 for GbE LAN
- M.2 M-Key (PCIEx4)
- M.2 B-Key (PCIEx2 and USB 3.0)
- M.2 E-key (PCIEx1 and USB 2.0)



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)