

BOXER-8251AI

AI@Edge Compact Fanless Embedded BOX PC with NVIDIA Jetson Xavier NX

Features

- NVIDIA Jetson Xavier NX
- 6 Core ARM® Carmel®V8.2 Processor
- 8GB LPDDR4 + 16GB eMMC
- LAN x 1 + RS-232 x 2
- 12Vdc Power input



Specifications

System	
AI Accelerator	Nvidia Jetson Xavier NX
CPU	6 Core ARM® Carmel®V8.2 64bit CPU 6MB L2 + 4MB L3
System Memory	8GB LPDDR4
Storage Device	16GB eMMC + MicroSD
Display Interface	HDMI 2.0
Ethernet	10/100/1000Base-TX x 1
I/O	USB 3.2 Gen 1 x 4 LAN x 1 RS-232 x 2 HDMI x 1 MicroSD x 1 DC Power Input x 1 Recovery Button x 1 Micro-USB for
Expansion	M.2 E-Key 2230 x 1(for WiFi)
Indicator	Power LED x 1
OS Support	Linux (AAEON ACLinux 4.9, Compliance with Ubuntu 18.04)
Power Supply	
Power Requirement	12Vdc w/ 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	3.46" x 2.95" x 1.53" (88mm x 75mm x 39mm)
Gross Weight	1.10 lb (0.5 kg)
Net Weight	0.66 lb (0.3 kg)
Environmental	
Storage Temperature	-40°F ~ 158°F (-40°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – MicroSD or eMMC
Certification	CE/FCC class A

Operating Temperature

Power Mode	CPU Core	CPU Maximum Frequency	Operation Temp.
15W	6 Core	1.4GHz	-20°C ~ 40°C
	4 Core	1.4GHz	-20°C ~ 40°C
	2 Core	1.9GHz	-20°C ~ 50°C
10W	4 Core	1.2GHz	-20°C ~ 50°C
	2 Core	1.5GHz	-20°C ~ 50°C

Note 1: 100% CPU Load 100% / 100% GPU load Note 2:

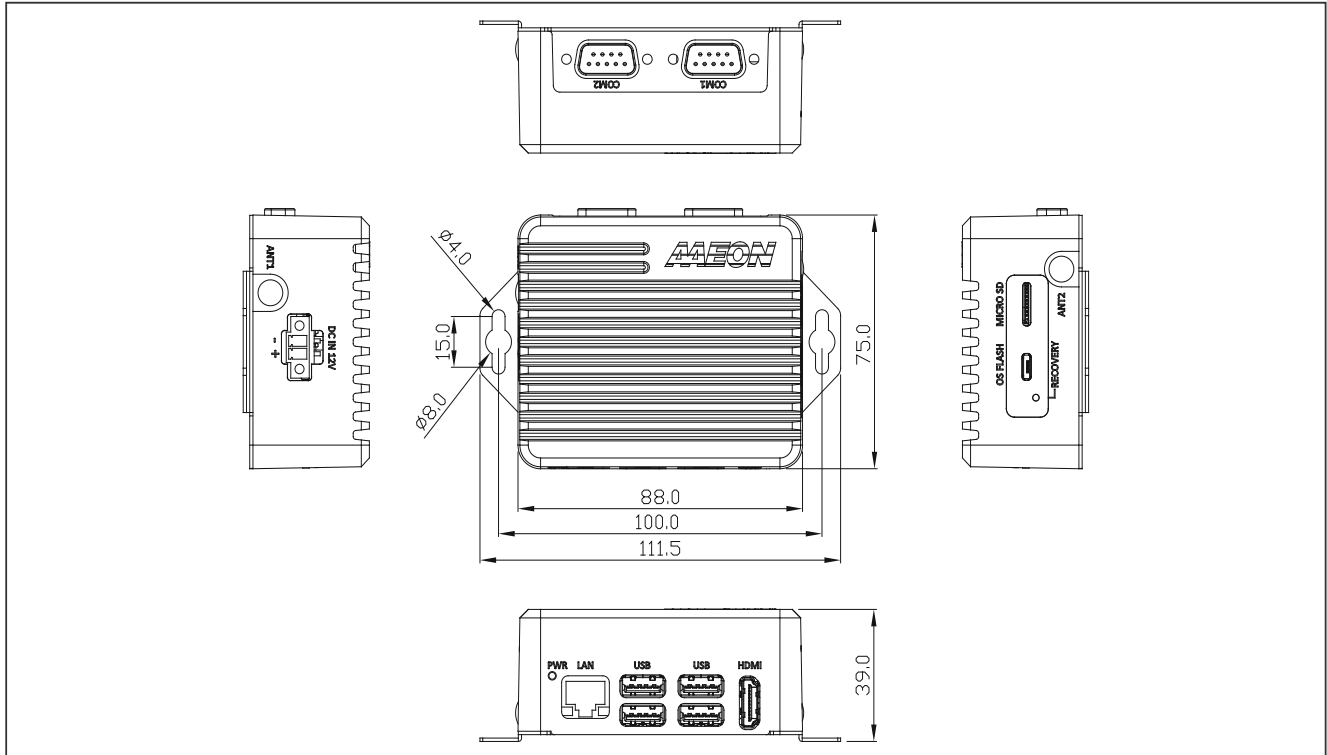
No throttling of CPU

Note 3: Air flow 0.5m/s

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Dimension

Unit: mm



Ordering Information

Part Number	AI solution	LAN	USB 3.2 Gen 1	RS-232	Storage	Display	Mounting	Power
BOXER-8251AI-A1-1010	Jetson Xavier NX	1	4	2	16GB eMMC + MicroSD	HDMI x 1	Wallmount	12Vdc w/ 2 pin terminal block

Packing List

- Power Connector x 1
- BOXER-8251AI

Optional Accessories

- **1255300611**
60W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)