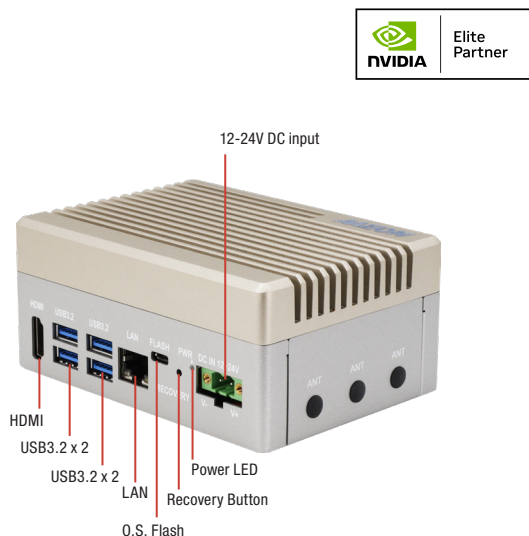


BOXER-8651AI-PLUS PRELIMINARY

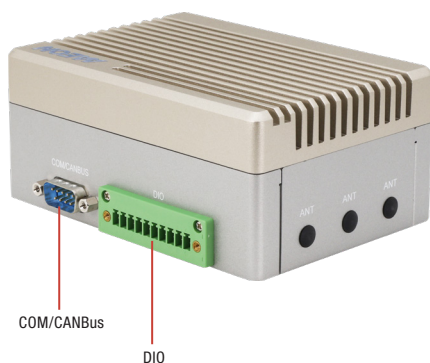


AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin™ NX

Front View



Rear View



Features

- NVIDIA® Jetson Orin™ NX
- Supports NVIDIA® JetPack 6.2 Super mode
- USB 3.2 Gen 2 (Type-A) x4
- DB-9 x1 for RS-232(Rx/Tx/RTS/CTS) & CANBus
- 10-Pin header for DIO
- On board TPM as default
- Expansion: M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- Operating Temperature: -13°F ~ 131°F (-25°C ~ 55°C)



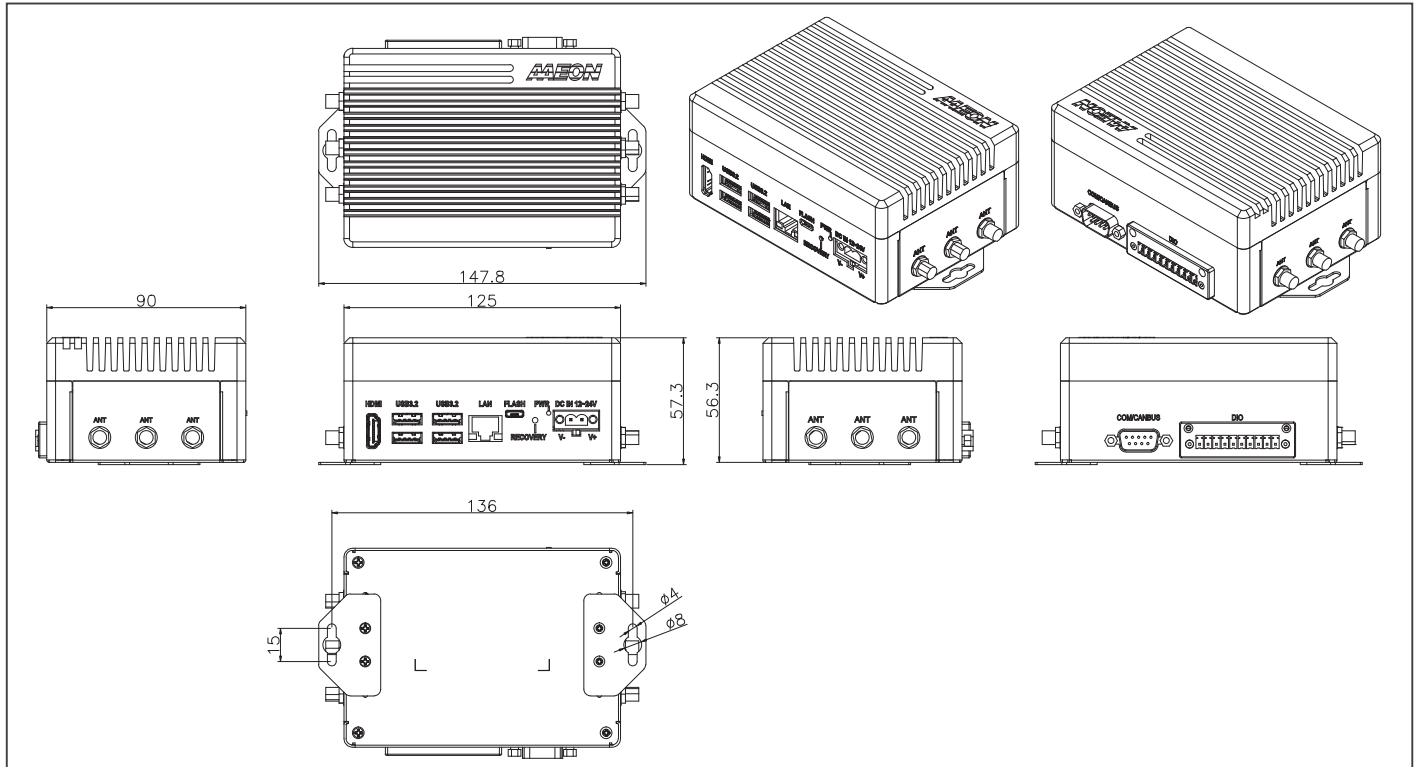
Specifications

System	
AI Accelerator	NVIDIA® Jetson Orin™ NX
CPU	Orin NX 8GB: 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU Orin NX 16GB: 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
System Memory	Orin NX 8GB: 8GB LPDDR5 Orin NX 16GB: 16GB LPDDR5
Storage Device	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default Storage) M.2 2230 E-Key x 1 (Optional)
Display Interface	HDMI 2.1 (Type-A) x 1
Ethernet	RJ-45 x 1 for GbE LAN
I/O	USB 3.2 Gen 2 (Type-A) x 4 DB-9 for RS-232 (Rx/Tx/CTS/RTS) & CANBus FD x 1 10-Pin header for DIO x 8 Micro USB x 1 for OS Flash Recovery Button x 1 Antenna x 6
Expansion	M.2 3042/3052 B Key x 1 (4G/5G/M.2 2242 B+M Key storage) M.2 2230 E Key x 1 (Wifi/BT) SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 6.2 and above)
Power Supply	
Power Requirement	12~24VDC 2-pin Terminal Block
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	4.92" x 3.54" x 2.2" (125 mm x 90 mm x 56 mm)
Gross Weight	3.13lb (1.42kg)
Net Weight	1.85lb (0.84kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C with 0.7m/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 A



Dimension

Unit: mm



Ordering Information

Part Number	AI SOLUTION	LAN	USB 3.2 Gen 2	RS232/422/485	CANBUS	DIO	Storage	Display	Mounting	Power	Operation System
BOXER-8651AI-JP620N-B1-1010	NVIDIA® Jetson Orin™ NX 8GB	1	4	1	1	8	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default: 128GB) M.2 2230 E-Key x 1 (Optional)	HDMI 2.1 x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2 or above)
BOXER-8651AI-JP620N-B2-1010	NVIDIA® Jetson Orin™ NX 16GB	1	4	1	1	8	M.2 3052 B-Key x 1 for M.2 2242 B+M Key SSD (Default: 128GB) M.2 2230 E-Key x 1 (Optional)	HDMI 2.1 x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2 or above)

Packing List

- BOXER-8651AI-B1
- Wallmount Bracket x 2
- Screw Package x 1

Optional Accessories

- 1255300611
60W Power Adapter
- 170X000799
Power Cord (US type)
- 170X000800
Power Cord (European Type)
- 170X000803
Power Cord (Japanese Type)