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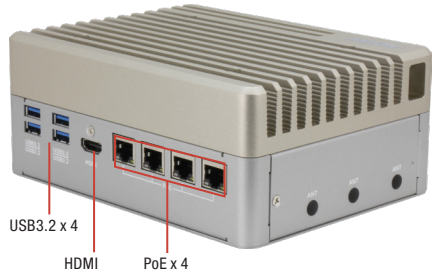
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BOXER-8653AI

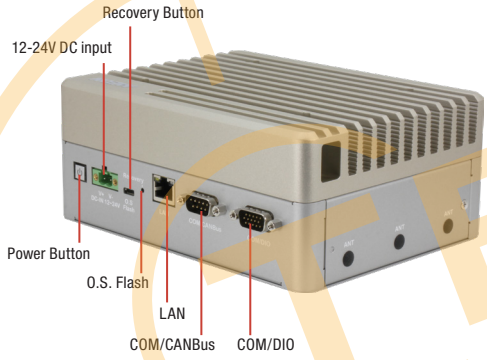
AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin™ NX

Front View

NVIDIA Elite Partner



Rear View



Features

- **NVIDIA® Jetson Orin™ NX**
- **GbE PoE/PSE 802.3af/at x 4 + GbE LAN x 1**
- **M.2 2230 E-Key x 1, M.2 2280 M-Key x 1, M.2 3042/3052 B-Key x 1**
- **COM/CANBus/DIO**
- **Operating Temperature: -15°C ~ 60°C**

CE FC

Specifications

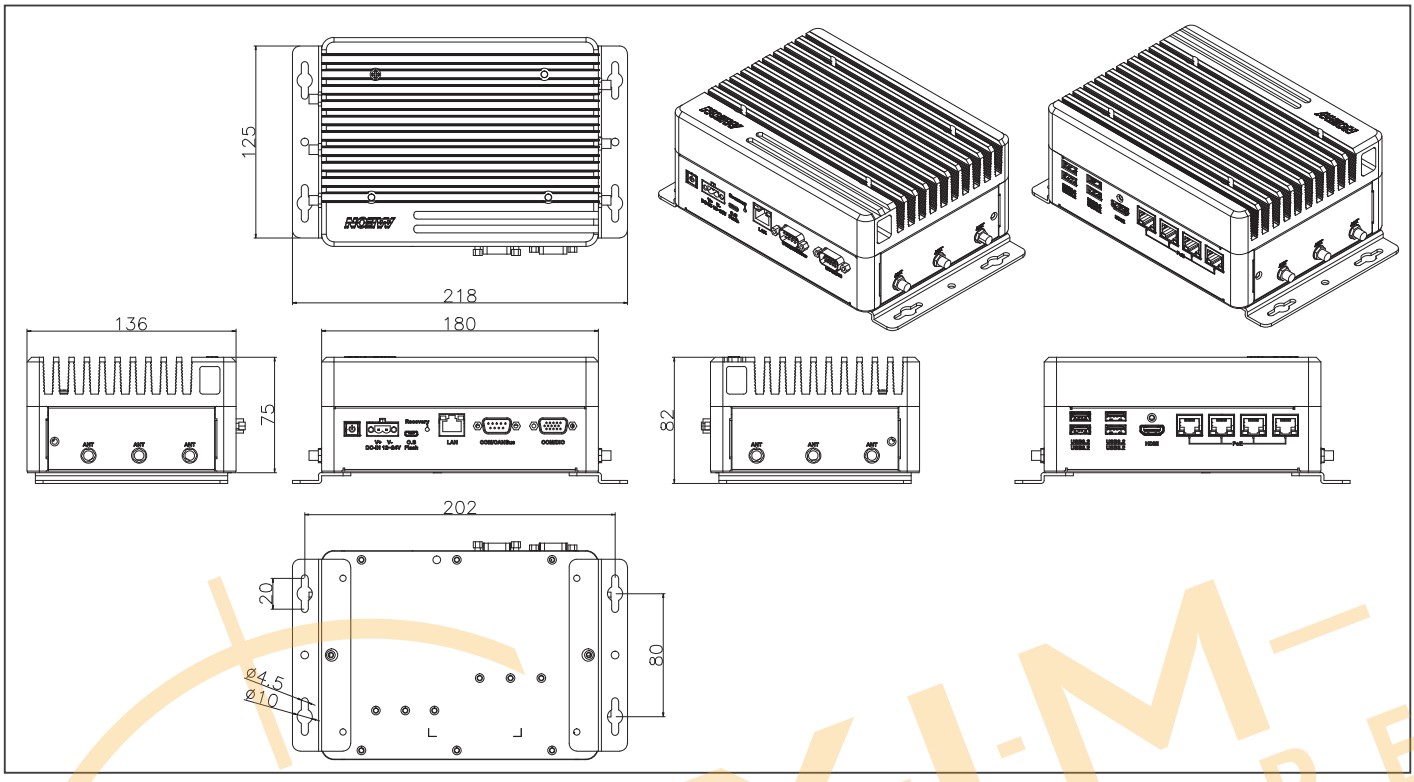
System	
AI Accelerator	NVIDIA® Jetson Orin™ NX
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU 8-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
System Memory	8GB/16GB LPDDR5
Storage Device	M.2 2280 M Key x 1
Display Interface	HDMI 2.0 (Type-A) x 1
Ethernet	RJ-45 x 1 for GbE LAN RJ-45 x 4 for GbE PoE/PSE 802.3af/at (Max.60W)
I/O	USB 3.2 Gen 2 (Type-A) x 4 DB-9 x 1 for RS-232 (Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 DB-15 x 1 for RS-232(Rx/Tx)/422/485 x 1 and DIO x 8 Micro USB x 1 for OS Flash Power Button x 1 Recovery Button x 1 Antenna Hole x 6
Expansion	M.2 2280 M-Key x 1 (NVMe) M.2 3042/3052 B-Key x 1 M.2 2230 E-Key x 1 SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack™ 5.0 and up)
Power Supply	
Power Requirement	12V ~ 24V DC in with 2-pin Terminal Block x 1
Mechanical	
Mounting	Wall Mount
Dimensions (W x D x H)	7.09" x 5.35" x 2.95" (180mm x 136mm x 75mm)
Gross Weight	7.7 lb (3.5kg)
Net Weight	5.5 lb (2.5kg)
Environmental	
Operating Temperature	5°F ~ 140°F (-15°C ~ 60°C), according to IEC60068-2 with 0.5 m/s AirFlow
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	5% ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5Grm / 5~500Hz / Operation
Anti-Shock	50G peak acceleration
Certification	CE/FCC class A

Note: All specifications are subject to change without notice.

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Dimension

Unit: mm



Packing List

- BOXER-8653AI x 1
- Wallmount Bracket x 2
- Power connector x 1
- 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)

Ordering Information

Part Number	AI Solution	LAN	POE	USB	COM	CANBus	DIO	Storage	Display	Mounting	Power	Operation System
BOXER-8653AI-JP511N-A1-1010	NVIDIA® Jetson Orin NX™ 8GB	1	4	3.2 Gen 2 x 4	2	1	8	M.2 2280 M-Key x 1 for Storage (Default: 128GB)	HDMI x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 5.0 or above)
BOXER-8653AI-JP511N-A2-1010	NVIDIA® Jetson Orin NX™ 16GB	1	4	3.2 Gen 2 x 4	2	1	8	M.2 2280 M-Key x 1 for Storage (Default: 128GB)	HDMI x 1	Wall mount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 5.0 or above)

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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.

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