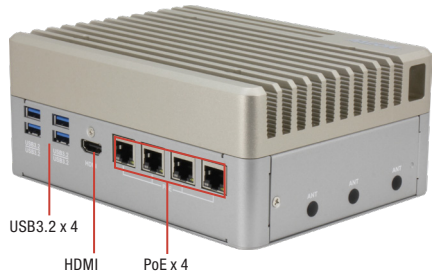
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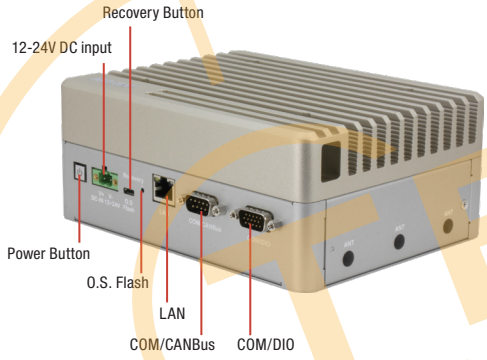
BOXER-8623AI

AI@Edge Compact Fanless Embedded AI System with NVIDIA® Jetson Orin Nano™ with Super Mode

Front View



Rear View



Features

- **NVIDIA® Jetson Orin Nano™ with Super Mode**
- **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 ~ 65°C**

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Specifications

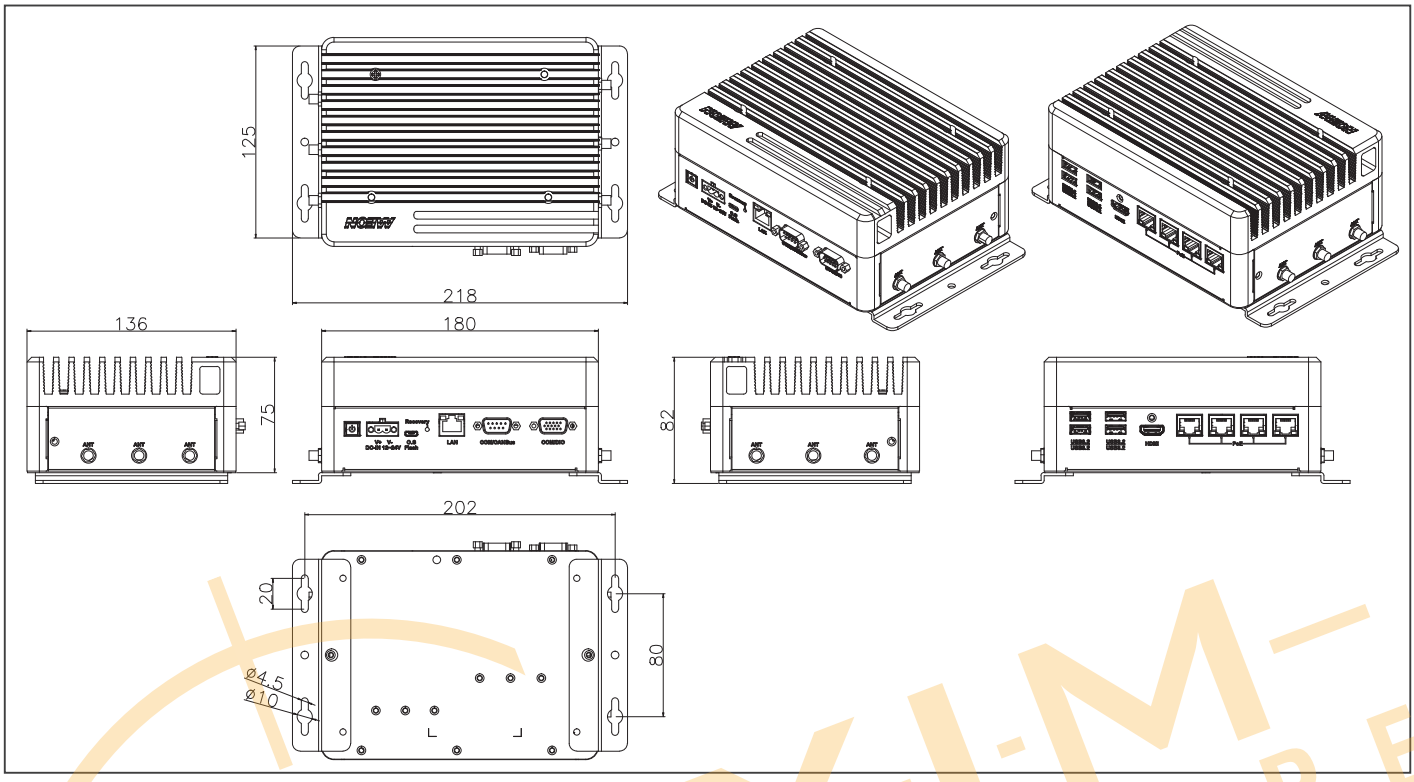
System	
AI Accelerator	NVIDIA® Jetson Orin Nano™
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
System Memory	4GB LPDDR5 8GB LPDDR5
Storage Device	M.2 2280 M Key x 1
Display Interface	HDMI 1.4 (Type-A) x 1
Ethernet	RJ-45 x 1 for GbE LAN RJ-45 x 4 for GbE PoE/PSE 802.3af/at (Max.60W)
I/O	USB 3.2 Gen 2 (Type-A) x 4 DB-9 x 1 for RS-232 (Rx/Tx/CTS/RTS) 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™ 6.2.0 and up)
Power Supply	
Power Requirement	12V ~ 24V DC in with 2-pin Terminal Block x 1
Mechanical	
Mounting	Wallmount
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 ~ 149°F (-15°C ~ 65°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



Ordering Information

Part Number	AI Solution	LAN	POE	USB	COM	CANBus	DIO	Storage	Display	Mounting	Power	Operating System
BOXER-8623AI-JP620N-A1-1010	NVIDIA® Jetson Orin Nano™ 4GB	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	Wallmount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2.0 or above)
BOXER-8623AI-JP620N-A2-1010	NVIDIA® Jetson Orin Nano™ 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	Wallmount	12 ~ 24VDC w/ 2 pin terminal block	Linux (NVIDIA Jetpack™ 6.2.0 or above)

Packing List

- **BOXER-8623AI 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)

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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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Texim Europe - contact details



Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com