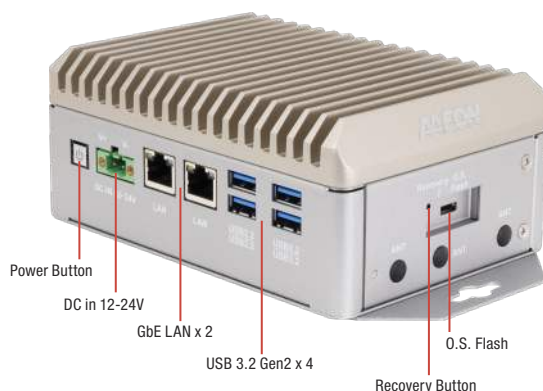


BOXER-8652AI-PLUS

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

Front View



Rear View



Features

- NVIDIA® Jetson Orin™ NX
- Supports NVIDIA JetPack™ 6.2.1 with Super Mode
- Dual GbE (OOB x 1)
- DB-9 x 2 for CANBus, RS-232/422/485
- M.2 E-Key, M.2 B-Key, M.2 M-Key (pre-installed NVMe 128GB)
- Onboard TPM



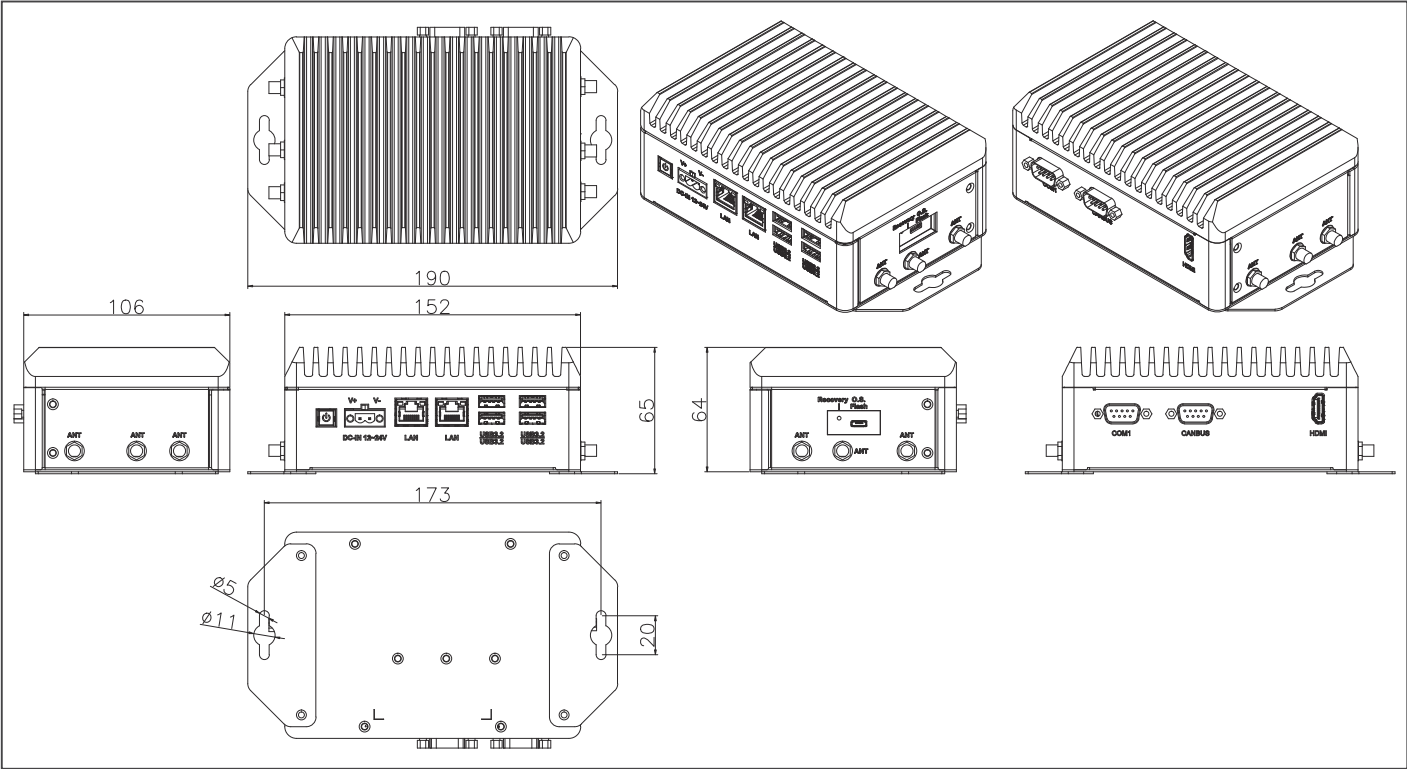
Specifications

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 2280 M-Key (pre-populated with 128GB NVMe)
Display Interface	HDMI 1.4b x 1
Ethernet	RJ-45 x 2 for 10/100/1000 Base-T (OOB Management support x 1)
I/O	USB 3.2 Gen 2 (Type-A) x 4 Micro USB x 1 for OS Flash DB-9 x 1 for CANBus DB-9 x 1 for RS-232/422/485 Power ON/OFF Switch x 1 Recovery Button x 1 Antenna Hole x 6 MIPI Connector x 2 AT/ATX Jumper x 1 (Default: ATX) UART x 1 for debug 5V Fan connector x 1
Expansion	M.2 3042/3052 B-Key x 1 (LTE/5G/M.2 2242 B+M-Key storage) M.2 2230 E-Key x 1 (Wi-Fi/BT) M.2 2280 M-Key x 1 (pre-populated with 128GB NVMe) Nano SIM x 1 TPM 2.0 x 1 (onboard) Box Header x 1 for OOB
Indicator	Power LED x 1 System LED x 1
OS Support	Linux (NVIDIA JetPack™ 6.2.1 and above)
Power Supply	
Power Requirement	2-pin Phoenix Connector x 1 for 12V - 24V DC power input
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	7.48" × 5.35" × 2.95" (190mm x 136mm x 75mm)
Gross Weight	4.37 lb (1.98kg)
Net Weight	3.04 lb (1.38kg)
Environmental	
Operating Temperature	-13°F - 149°F (-25°C ~ 65°C), according to IEC60068-2 with 0.7 m/s Airflow
Storage Temperature	104°F ~ 185°F (40°C ~ 85°C)
Storage Humidity	5%~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5G / 5~500Hz / operating
Anti-Shock	50G peak acceleration
Certification	CE/FCC class A



Dimension

Unit: mm



Ordering Information

Part Number	AI Solution	LAN	USB	RS-232/422/485	CANBus	DIO	Storage	Display	Mounting	Power	Operation System
BOXER-8652AI-JP621N-B1-1010	NVIDIA® Jetson Orin™ NX 8GB	2	3.2 Gen 2 x4	1	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™ 6.2.1 or above)
BOXER-8652AI-JP621N-B2-1010	NVIDIA® Jetson Orin™ NX 16GB	2	3.2 Gen 2 x4	1	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™ 6.2.1 or above)

Packing List

- BOXER-8652AI-PLUS 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)