

# BOXER-8651AI PRELIMINARY

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

AI@Edge Solutions

Front View



Rear View



## Features

- NVIDIA® Jetson Orin™ NX
- Expansion: M.2 2230 E Key, M.2 3052 B Key x 1
- USB 3.2 Gen 2 x 2 & USB 2.0 type A x 2
- COM, DIO, CANBus
- Operating temperature: -25°C ~ 55°C



## Specifications

System	
AI Accelerator	NVIDIA® Jetson Orin™ NX
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
System Memory	8GB LPDDR5
Storage Device	M.2 3052 B Key x 1 for M.2 2242 B+M Key RAM, M.2 2230 E Key x 1
Display Interface	HDMI 2.1 type A x 1
Ethernet	RJ-45 x 1 for GbE LAN
I/O	USB 3.2 Gen 1 type A x 2 USB 2.0 type A x 2 DB-9 for RS232(Rx/Tx)/CTS/RTS /RS485 x 1 and CANBus FD x 1 DB-15 for RS232(Rx/Tx)/422/RS485 x 1 and DIO x 8 HDMI 2.1 type A x 1 Micro USB x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 2
Expansion	M.2 3042/3052 B Key x 1 (4G/5G/M.2 2242 B+M Key storage) M.2 2230 E Key (Wifi/BT/Storage) x 1 SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux ( NVIDIA Jetpack 5.0 up )
Power Supply	
Power Requirement	12V DC in with 2 pins terminal block x 1
Mechanical	
Mounting	Wall Mount (default)
Dimensions (W x D x H)	TBD
Gross Weight	TBD
Net Weight	TBD
Environmental	
Operating Temperature	-13°F ~ 131°F ( -25°C ~ 55°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% @ 40C, non-condensing
Anti-Vibration	3.5Grm / 5~500Hz / Operation
Anti-Shock	50G peak acceleration
Certification	CE/FCC class A

## Optional Accessories

- TBD

## Packing List

- TBD

## Ordering Information

- BOXER-8651AI-JP51M-A1-1010

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660