

PRELIMINARY

BOXER-8653AI

01

AI@Edge Compact Fanless Embedded AI System with NVIDIA Orin NX

AI@Edge Solutions

Front View



Launching in Q1

Rear View

Features

- NVIDIA Jetson Orin NX
- GbE PoE/PSE 802.3af x 2 ports
- Storage: M.2 2280 M Key x 1
- Optional for OOB function by request
- Operating temperature: -25°C ~ 70°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 2280 M Key x 1
Display Interface	HDMI 2.1 type A x 1
Ethernet	RJ-45 x 1 for GbE LAN RJ-45 x 2 for GbE PoE/PSE 802.3af/each (Max.30W)
I/O	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 DB-9 for 232(Rx/Tx)/422/485 x 1 DB-9 for 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 4
Expansion	M.2 2280 NVMe M Key x 1 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 up)
Power Supply	
Power Requirement	12V~24V 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 ~ 158°F (-25°C ~ 70°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	3.5Grms / 5~500Hz / Operation
Anti-Shock	50G peak acceleration
Certification	CE/FCC class A

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- BOXER-8653AI-JP51T-A1-1010

Note: All specifications are subject to change without notice.

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US

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

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