

BOXER-8651AI

PRELIMINARY

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

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 SSD (PCIe) 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 2 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	3.5Grms / 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



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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% @ 40°C, 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

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