

BOXER-8741AI

AI@Edge Board with NVIDIA® Jetson Thor™

Preliminary



Features

- NVIDIA® Jetson Thor™
- 14-core Arm® Neoverse®-V3AE 64-bit CPU, 128GB onboard LPDDR5x
- 25GbE LAN x 4 for Sensor Integration
- 5GbE LAN x 3, RS-485 x 2 for LiDAR
- DIO/CANBus



Specifications

System	
AI Accelerator	NVIDIA® Jetson Thor™
CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU
System Memory	128GB 256-bit LPDDR5X
Storage Device	M.2 2280 M-Key x 1
Display Interface	HDMI 1.4a x 1
Ethernet	QSFP28 x 1 for 25GbE x 4 RJ-45 x 1 for 5GbE RJ-45 x 3 for 1GbE
I/O	DB-9 x 2 for CAN x 4 DB-9 x 2 for RS-485 USB 3.2 Gen 2 USB (Type-A) x 4 10-pin Terminal Block for 8-bit GPIO Line-in/Line-out x 1 Mini USB x 1 for OS Flash Reset Button x 1 Pin Header for RS-485 x 2 8-pin Automation Header eDP x 1 for LCD Pin Header for CSI-2 I2C x 1 for LiDAR UART x 1 for LiDAR Onboard Platform Security Controller Fan Connector x 1 Aspeed® AST2600 Baseboard Management Controller Management Console Web Interface
Expansion	M.2 3052 B-Key x 1 M.2 2230 E-Key x 1 M.2 2280 M-Key x 1
Indicator	-
OS Support	NVIDIA Jetpack™ 7
Power Supply	
Power Requirement	2-pin Terminal Block x 1 for 12~24Vdc Power Input (pitch 5mm)
Mechanical	
Dimensions (W x D x H)	6.33" x 7.87" (161mm x 200mm)
Power Supply	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) according to IEC68-2-14 with 0.7 m/s AirFlow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5 ~ 95% @ 40C, non-condensing
Anti-Vibration	TBC
Anti-Shock	TBC
Certification	CE/FCC Compliant

Dimension: Unit: mm

