

BOXER-8641AI-PLUS

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



Front View



Rear View



Features

- NVIDIA® Jetson AGX Orin
- Giga LAN x1, 10G LAN x1
- USB 3.2 Gen 2 (Type-A) x4
- DB-9 x1 for DIO x8
- DB-9 x2 for RS-232/422/485(Rx/Tx/RTS/CTS)
- Multi-expansion option: M.2 Key E / M.2 Key B / M.2 Key M



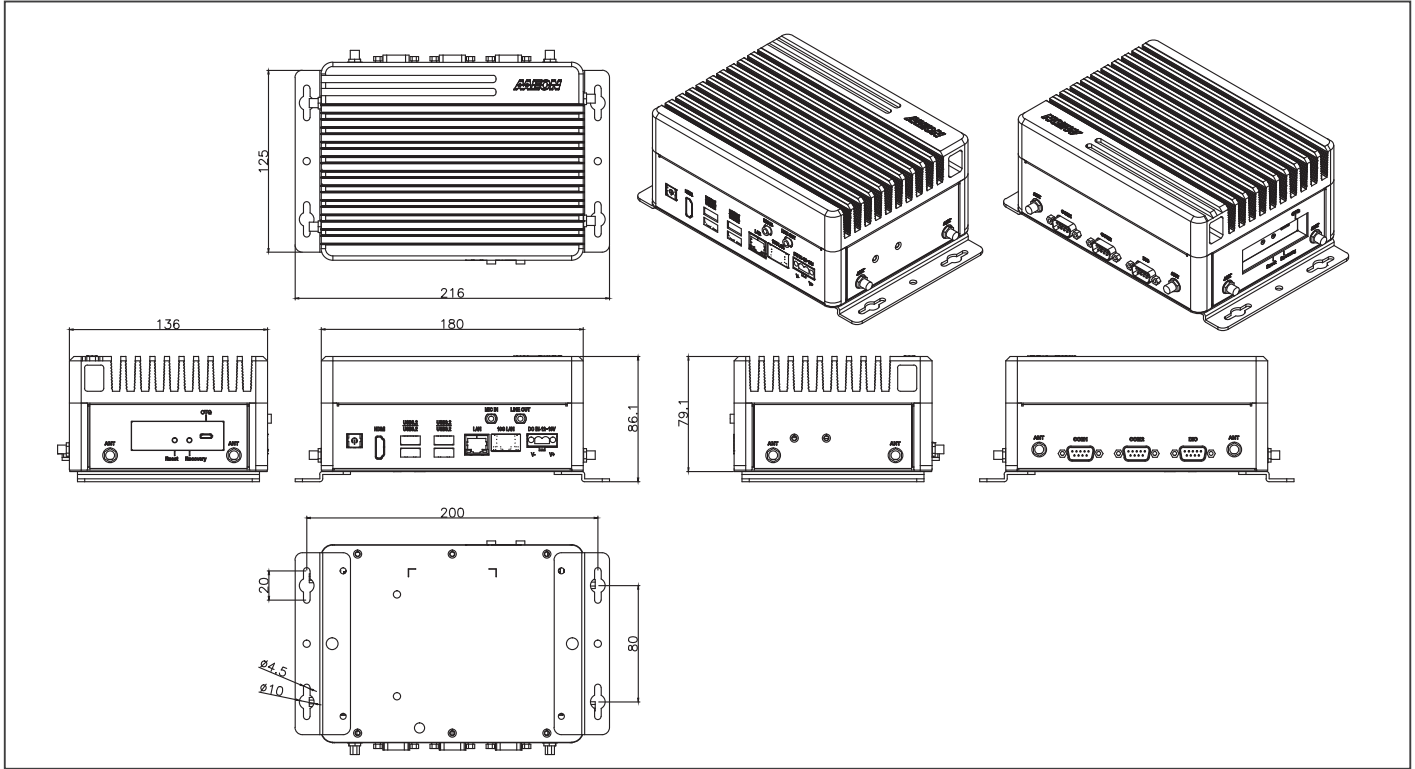
Specifications

System	
AI Accelerator	NVIDIA® Jetson AGX Orin™
CPU	AGX Orin 32GB: 8-core Arm® Cortex®-A78AE CPU AGX Orin 64GB: 12-core Arm® Cortex®-A78AE CPU
System Memory	32GB LPDDR5 64GB LPDDR5
Storage Device	64GB eMMC 5.1 x 1 MicroSD slot x 1 2.5" SATA drive bay x 1
Display Interface	HDMI Type A for HDMI 2.0 x 1
Ethernet	RJ-45 for Giga LAN x 1 RJ-45 for 10G LAN x 1
I/O	USB Type A for USB 3.2 Gen 2 x 4 DB-9 x 2 for RS-232/422/485(Rx/Tx/RTS/CTS) DB-9 x 1 for DIO x 8 Micro USB x 1 for OS Flash Mic in and Line out x1 MicroSD card slot x 1 Antenna opening x 6 Reset Button x 1 Recovery Button x 1 Power Button x 1 TPM2.0 x 1
Expansion	M.2 E-Key 2230 (for Wifi/BT) x 1 M.2 B-Key 3052 x 1 M.2 M-Key 2280 (NVMe) x 1 2.5" SATA drive bay SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 6.0 and above)
Power Supply	
Power Requirement	12~19VDC 2-pin Terminal Block
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	7.09 " x 5.35 " x 3.11" (180.0 mm x 136 .0 mm x 79.0 mm)
Gross Weight	7.8lb (3.55kg)
Net Weight	5.5lb (2.5kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C with 0.7m/s airflow)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5 Grms, 5~500Hz with SSD
Anti-Shock	50G peak acceleration
Certification	CE / FCC class B



Dimension

Unit: mm



Ordering Information

Part Number	AI Solution	Giga LAN	10G LAN	USB	RS-232/422/485	DIO	Display	Storage	Mounting	Power	Operating System
BOXER-8641AI-B1-JP600E-A1-1010	NVIDIA® Jetson AGX Orin™ 32GB	1	1	3.2 Gen 2 x 4	2	8	HDMI x 1	64GB eMMC + MicroSD + 2.5"SATA + M.2 2280 M Key	Wall mount	12 ~ 19VDC w/ 2 pin terminal block	JetPack™ 6.0.0
BOXER-8641AI-B1-JP600E-A2-1010	NVIDIA® Jetson AGX Orin™ 64GB	1	1	3.2 Gen 2 x 4	2	8	HDMI x 1	64GB eMMC + MicroSD + 2.5"SATA + M.2 2280 M Key	Wall mount	12 ~ 19VDC w/ 2 pin terminal block	JetPack™ 6.0.0

Packing List

- BOXER-8641AI-B1
- Wallmount Bracket x 2
- Screw Package x 1

Optional Accessories

- 170X000799
Power Cord (US type)
- 170X000800
Power Cord (European Type)
- 170X000803
Power Cord (Japanese Type)