

BOXER-8641AI

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

Front View



Rear View



Features

- NVIDIA® Jetson AGX Orin™
- 32GB LPDDR5
- Multi-storage option: 64GB eMMC / MicroSD slot / 2.5" SATA drive bay/ M.2 2280 M Key
- Support M.2 E Key / M.2 B Key / M.2 M Key
- Support GbE LAN x 2



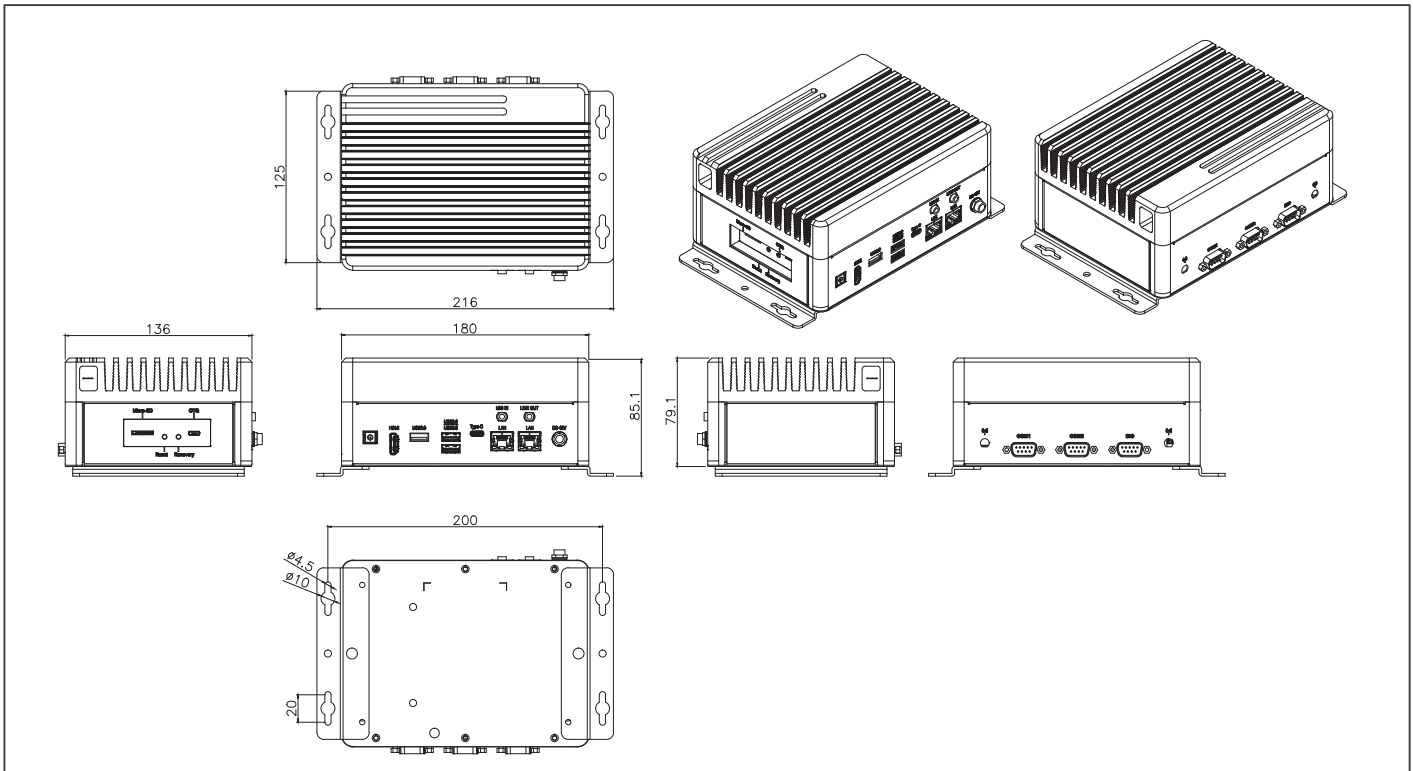
Specifications

System	
AI Accelerator	NVIDIA® Jetson AGX Orin™
CPU	8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3
System Memory	32GB 256-Bit LPDDR5 205GB/s
Storage Device	64GB eMMC 5.1 x 1 MicroSD slot x 1 SATA drive bay x 1
Display Interface	HDMI Type A for HDMI 2.0 x 1
Ethernet	RJ-45 for GbE LAN x 2
I/O	USB Type A for USB 3.2 Gen 2 x 2 USB Type C for USB 3.2 Gen 2 x 1 USB Type A for USB 2.0 x 1 Micro USB x 1 for OS Flash Mic in and Line out x1 Reset Button x 1 Recovery Button x 1 MicroSD card slot x 1 Antenna opening x 2 Power Button x 1 DB-9 x 2 for RS-232/422/485 DB-9 x 1 for DIO x 8
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 5.0 or above)
Power Supply	
Power Requirement	12V DC with lockable DC Jack
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	7.09 " x 5.35 " x 2.41" (180.0 mm x 136.0 mm x 61.1 mm)
Gross Weight	7.8lb (3.55kg)
Net Weight	5.5lb (2.5kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C with 0.5 m/s airflow)
Storage Temperature	-40°F ~ 158°F (-40°C ~ 70°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	3.5Grms / 5~500Hz / operation-eMMC, MicroSD or SSD
Anti-Shock	50G peak acceleration (11 msec. duration, eMMC, microSD, or SSD)
Certification	CE / FCC Class B



Dimension

Unit: mm



Ordering Information

PART NUMBER	AI SOLUTION	LAN	USB	RS-232/422/485	DIO	STORAGE	DISPLAY	MOUNTING	POWER	OPERATION SYSTEM
BOXER-8641AI-JP502E-A1-1010	Jetson AGX Orin	2	3.2 Gen 2 x 3 + 2.0 x 1	2	8	64GB eMMC + MicroSD + 2.5" SATA + M.2 2280 M Key	HDMI x 1	Wall mount	12VDC w/ lockable connector	Linux (NVIDIA Jetpack 5.x up)

Packing List

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

Optional Accessories

- 1255X00057
84W, lockable DC jack
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

