

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

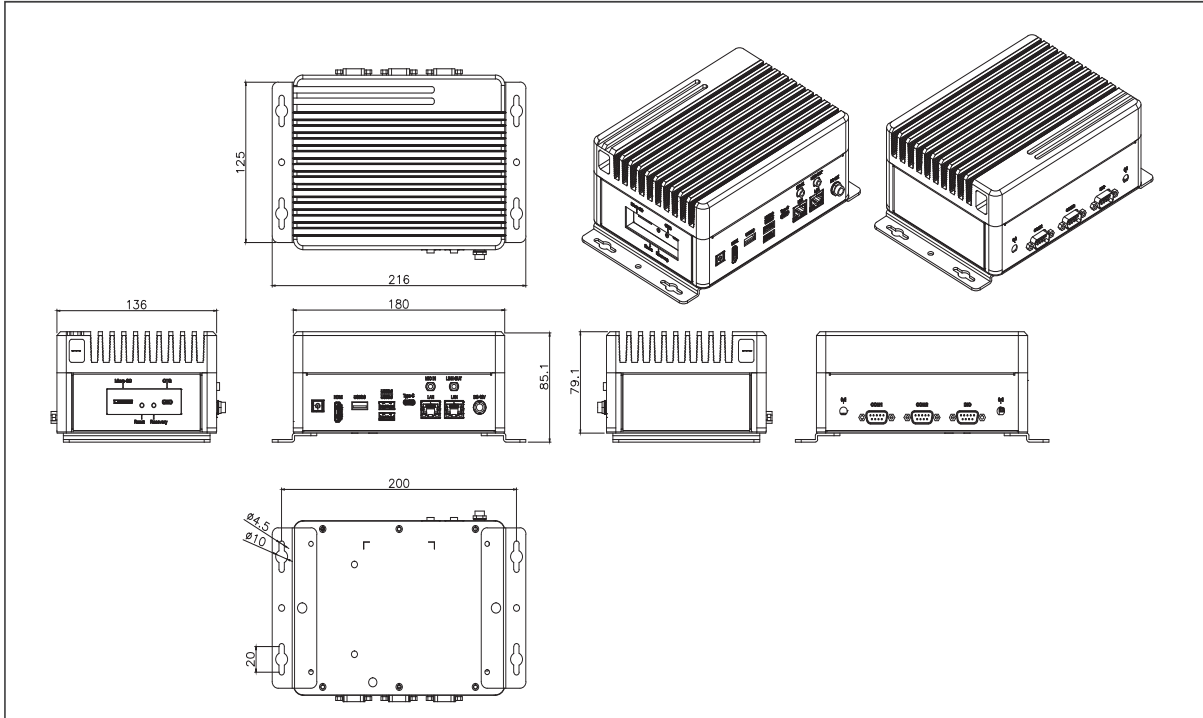
| System | |
|------------------------|--|
| AI Accelerator | NVIDIA® Jetson AGX Orin™ |
| CPU | 8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3 |
| System Memory | 32GB 256-Bit LPDDR5 205GB/s |
| Storage Device | 64GB eMMC 5.1 x 1 MicroSD slot x 1 SATA drive bay x 1 |
| Display Interface | HDMI Type A for 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 | 3.5Gm / 5~500Hz / operation-eMMC, MicroSD or SSD |
| Anti-Shock | 50G peak acceleration (11 msec. duration, eMMC, microSD, or SSD) |
| Certification | CE / FCC Class B |

BOXER-8641AI

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AI@Edge Solutions

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-AI-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)

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