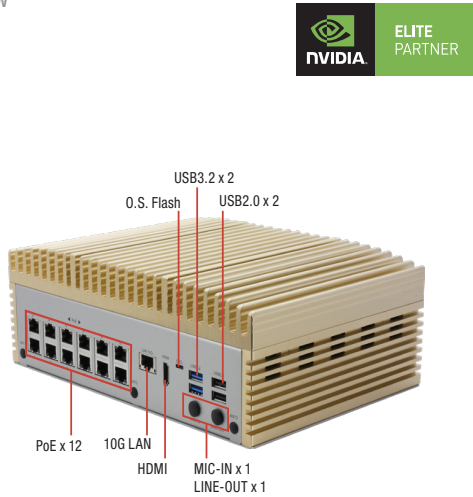


BOXER-8646AI

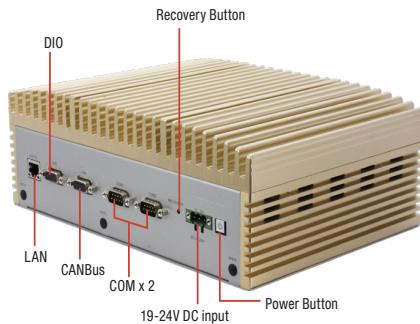
AI@Edge Fanless PoE Embedded AI System with NVIDIA® Jetson AGX Orin™

AI@Edge Solutions

Front View



Rear View



Features

- NVIDIA® Jetson AGX Orin™
- PoE/PSE GbE LAN x 12
- 10G LAN x 1 and Giga LAN x 1
- Multi-expansion: M.2 E Key / M.2 B Key / M.2 M Key
- CANBus / COM / DIO



Specifications

System	
AI Accelerator	NVIDIA® Jetson AGX Orin™
CPU	8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3
System Memory	32GB LPDDR5
Storage Device	64GB eMMC 5.1 x 1 M.2 2280 NVMe M Key x 1
Display Interface	HDMI Type A x 1 for HDMI 2.0
Ethernet	RJ-45 x 12 for GbE PoE/PSE (802.3af/at, MAX.:120W) RJ-45 x 1 for 10G LAN RJ-45 x 1 for Giga LAN
I/O	USB Type A for USB 3.2 Gen 1 x 2 USB Type A for USB 2.0 x 2 Micro USB x 1 for OS Flash Mic-in x 1 Line-out x 1 DB-9 x 1 for CANbus FD x 2 DB-9 x 2 for RS-232/422/485 DB-9 x 1 for DIO x 8 3-pin terminal block x 1 for power input Power button x 1 Recovery button x 1 Antenna hole x 6
Expansion	M.2 2230 E Key x 1 (Wifi/BT) M.2 3052 B Key x 1 (LTE) M.2 2280 NVMe M Key x 1 SIM Slot x 1
Indicator	Power LED x 1
OS Support	Linux (NVIDIA Jetpack 5.0 or above)
Power Supply	
Power Requirement	3-pin terminal block x 1 for 19V~24V
Mechanical	
Mounting	Wall mount kit
Dimensions (W x D x H)	10.42" x 7.24" x 3.67" (264.76 mm x 184.00 mm x 93.30 mm)
Gross Weight	12.13lb (5.5kg)
Net Weight	9.92lb (4.5kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°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
Anti-Shock	50G peak acceleration
Certification	CE / FCC class A

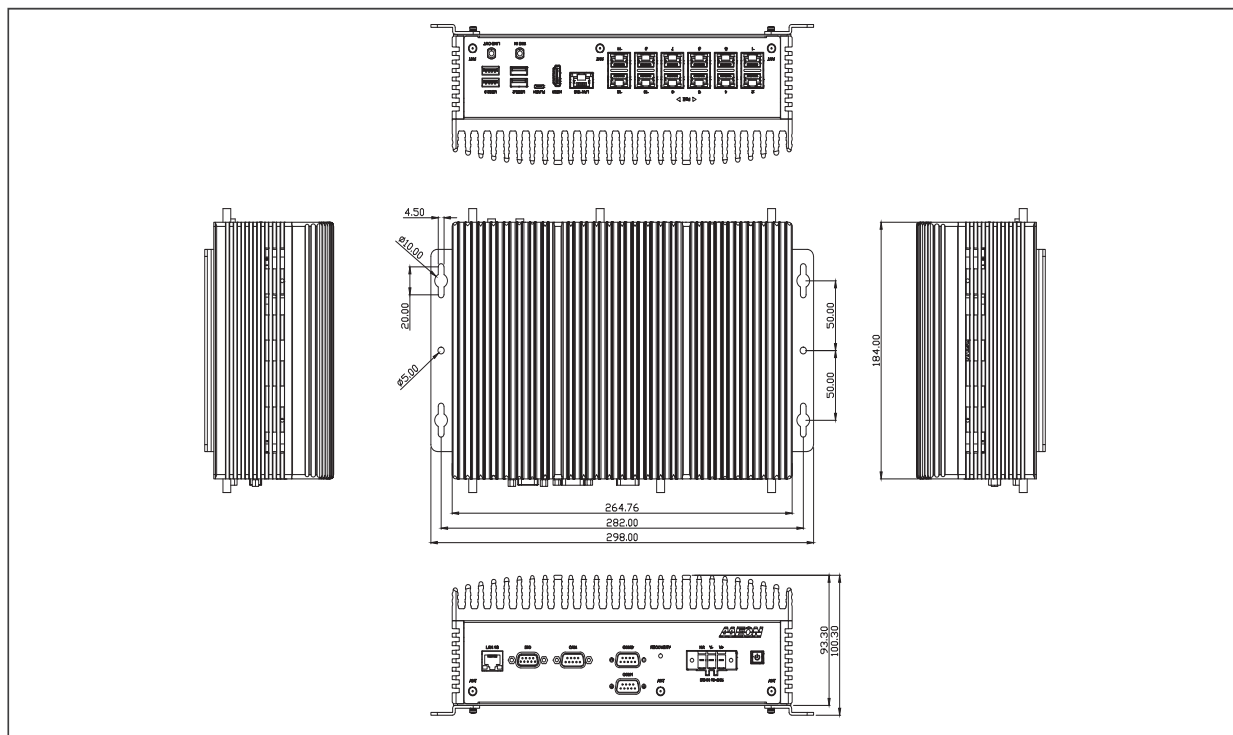
BOXER-8646AI

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AI@Edge Solutions

Dimension

Unit: mm



Packing List

- BOXER-8646AI x 1
- Wallmount Bracket x 2
- Power Connector x 1
- Screw Package x 1

Optional Accessories

- 1255903300
330W Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

Ordering Information

PART NUMBER	AI SOLUTION	POE LAN	USB	RS-232/422/485	CANBUS	LAN	STORAGE	DISPLAY	MOUNTING	POWER	OPERATION SYSTEM
BOXER-8646AI-JP502E-A1-1010	Jetson AGX Orin	12 (Max. 120W)	4	2	2	10G LAN x 1, Giga LAN x 1	64GB eMMC, M.2 2280 NVMe M Key	HDMI x 1	Wall mount	19V ~ 24VDC w/ 3 pin terminal block	Linux (NVIDIA Jetpack 5.x up)

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660