

Embedded PC Series

Industrial Computers

Industrial Components



Elevation

High-performance compact industrial PC designed for edge applications in the Industrial Internet of Things (IIoT). It features a 12th generation Intel® Core™ processor (**Alder Lake-S**) and a wide variety of input/output (I/O) ports. Its design includes a **9V-36V** voltage input, an excellent heat dissipation structure, and a reinforced mechanical design, ensuring reliability and stability in demanding environments.



TECHNICAL SPECIFICATIONS

Intel® Core™ i 12th generation CPU socket (LGA1700) with Intel® H610 PCH chipset, (options for Intel® Core™ 13th/14th generation)

RAM: 1*262-pin SODIMM, DDR4 3200 MHz, maximum 32GB

Storage: 1 2.5" SATA3

Extended Interface: 1 MiniPCIe

Operating temperature range: -20°C ~70 °C

Storage temperature range: -30 °C~80°C

Relative humidity: 5% to 95% (non-condensing)

Input power: 9 ~ 36 VDC

OS: Windows 10/11 (Linux/Ubuntu/Redhat/Debian options)

Size: 200*138*35mm

OTHER TECHNICAL DATA

Power Switch: 1*POWER

Power Supply Port: 1*2P Phoenix terminal (supports 12-36V)

Phoenix Terminal: 1*12P Phoenix terminal (232/485/NC, see specifications for details)

HDMI: Supports HDMI data output up to 4K.

DP Interface: 1*standard DP connector

Serial Port (Computing): Supports 4 RS232 serial ports (one of them compatible with RS485)

USB: 2*Standard USB3.0 socket ports, 6*Standard USB2.0 TYPEA socket ports

RJ45 Ethernet: 4*Inter 10M-1000M Adaptive RJ45 Ports

Audio: 1*3.5mm Audio I/O, supports audio input and output, headphone support.

GPIO: Supports 8*GPIO

WiFi+BT: Built-in PCIE M.2 WiFi, USB Bluetooth 5.0 protocol

WiFi Antenna: 2*WiFi Antenna

Earth Connection: Support (1*GND)

Power Adapter: DC 24V/2.5A Adapter

Material: Aluminium Alloy

Colour: Silver + Dark Blue

Net Weight (without components): 1.25kg

Total Assembled Weight: 1.6KG

Installation Methods: Supports wall mounting, desktop, rack mounting

I/O PORTS



CONNECTIVITY OPTIONS

WiFi Module: Intel AC 9560
WiFi Antenna: Yes
Connection Cable: Yes
SMA Extender: Optional

GPS Module: u-Blox pci-5s-1-500

GPS Antenna: Yes

Connection Cable: Yes

SMA Extender: Optional

4G/GPS Module: Quectel EC25-E
4G/GPS Antennas: Yes
Connection Cable: Yes

PRODUCT VALUES

- > Wide voltage range 9V-36Vdc
- > 4 RJ45 1000 Mbs ethernet network sockets.
- > GPIO inputs and outputs.
- > 8 USB ports.
- > 12th generation processor
- > Resistant to aggressive environments; dust, grease, vibrations.
- > Resistant to extreme temperatures and humidity.

MOST COMMON APPLICATIONS

- > Machine vision
- > Automation
- > Robot guiding
- > Industrial control systems (ICS)
- > Metrology
- > Distributed control systems / SCADA
- > Data acquisition systems (DAQs)
- > Product classification
- > Factory floor assembly lines
- > Installation on transport vehicles
- > Wireless station (Wifi/4G/GPS)

APPLICATION SECTORS

- > Artificial intelligence
- > Aerospace
- > Automotive
- > Data Centres
- > Distribution
- > Naval Sector
- > Pharmaceutical Industry
- > Transport and Logistics
- > Meat Industry
- > Fishing vessels
- > Shipyards

SOME SUCCESS STORIES

- > PLC and vision camera
- > External lighting
- > Machine vision equipment

ALTERNATIVE REFERENCES

- > eNX i5 1235U industrial PC
- > eRX TH Modular industrial PC

CERTIFICATIONS



PACKING

CONNECTIONS AND DIMENSIONS

