

PC Embedded Series

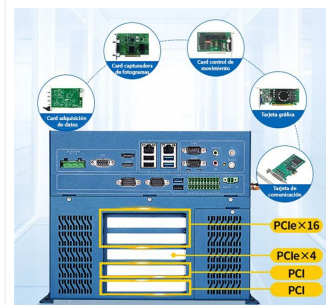


Elevation

Industrial Computers

High-performance expandable industrial PC is designed for edge applications in the Industrial Internet of Things (IIoT). It offers two PCIe/PCI slots for greater expandability, and is equipped with the H610 chipset. In addition, it has a 12th generation Intel® Core™ processor (Alder Lake-S), dual-channel DDR5 memory and a wide variety of input/output (I/O) ports. Its design includes 9V-36V voltage input, excellent heat dissipation structure and reinforced mechanical design, ensuring reliability and stability in demanding environments.

Industrial Components



TECHNICAL SPECIFICATIONS

Socket for 12th Generation Intel® Core™ i CPU (LGA1700) with Intel® H610 PCH Chipset, (options for 13th/14th Generation Intel® Core™)

RAM: 2*262-pin SODIMM, dual-channel DDR5 at 4800 MHz, maximum 64 GB

Storage: 2 x 2.5" SATA3, 1mSATA

Extended interface: 1PCIe X16, 1PCIe X4, 2*PCI 32bit

Wide operating temperature range: -20°C ~ 70°C

Display ports: 1VGA, 1HDMI, 1*DP

Dual LAN: 1000Mbps + 2500Mbps

Serial ports: 2RS-232/422/485, 2RS-232/485 (upgradable to 6 serial ports)

Input power range of 9 ~ 36 VDC

Supports **triple screen display**

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

Size: Size: 250*294*222.05mm

OTHER TECHNICAL DATA

Extended Ports: 1*PCIe X16, 1*PCIe X4, 2*32 BIT PCI

USB: 3*USB3.0, 3*USB2.0, 4*USB2.0 pins (built-in)

Ethernet: 2* RJ45 Ethernet (1000 Mbps + 2500 Mbps)

Serial Port: 4*COM, supports upgrade to 6*COM (2*RS232/422/485 COM1, COM2 switchable by BIOS setting; 4*RS232/485 switchable by jump cap)

Display Port: 1*DP, 1*HDMI, 1*VGA

GPIO: 16-channel opto-isolated (can be upgraded with 16-channel non-isolated GPIOs)

Wi-Fi/Bluetooth: 1*M.2 support Key-E interface WiFi/Bluetooth module

4G/5G: 1*M.2 support Key-B interface M.2 5G (3052/3042) module or M.2 4G (3042) module

Audio: Realtek ALC897 audio, 1*Line out and 1*MIC high fidelity audio, support 5.1 channels

Buttons/Indicators: 1* Power Button w/LED, 2-Pin Phoenix Terminal Remote Switch, AT-ATX DIP Switch, Clear Cmos DIP Switch.

Power Supply: DC in 9-36V

Power Consumption: ≤150W

Power Adapter: DC 24V adapter (optional)

Operating Temperature: -20°C~70°C

Storage Temperature: -30°C~80°C

Reliability Testing: Anti-static design, anti-surge design

Material: SGCC galvanized sheet, aluminum alloy

Installation: Wall-mounted, desktop, rack-mounted

I/O PORTS



Standard version



CERTIFICATIONS



EXPANSION OPTIONS



Max graph Compature: 418 4000 (110 watts average).
Direct power supply to the 12v cable source of the industrial PC.



Frame capturer for industrial field visual inspection equipment.



32-bit 5V PCI communication card. With isolated digital inputs and outputs.

PRODUCT VALUES

- > Rugged and expandable industrial PC
- > Expandable PCIe X16 + PCIe X4 + 2 x PCI 32 bits.
- > SSD and HDD extraction in a simple and comfortable way.
- > Double RJ45 LAN network connection
- > GPIO inputs and outputs
- > Remote software connection for remote on and off management
- > 4 serial ports, 2 of them compatible with RS485
- > Compatible with communication protocol cards. Industrial such as EtherCAT, PROFINET or Modbus

MOST COMMON APPLICATIONS

- > Artificial vision
- > Automation
- > Robot guidance
- > Industrial control systems (SCI)
- > Metrology
- > Distributed control systems / SCADA
- > Data acquisition systems (DAQs)
- > Product classification
- > Assembly lines at the factory
- > Mounting on transport vehicles
- > Wireless station (Wifi/4G/GPS)

APPLICATION SECTORS

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

SOME SUCCESS STORIES

- > PLC and vision camera
- > External lighting
- > Artificial vision machine

ALTERNATIVE REFERENCES

- > eRX i5 7700HQ industrial PC
- > Industrial PC eRX i5 7200u PCIe + PCI

PACKING

CONNECTIONS AND DIMENSIONS

