

IEXP-512-I7-1255U CAN 24V

RUGGEDISED INDUSTRIAL COMPUTER



Embedded PC Series

Fanless Industrial Computers

Industrial Components

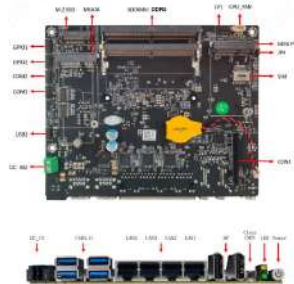


Elevation

12th generation INTEL i7 industrial PC up to 4.7Ghz with 1255U processor (10 cores / 12 threads).

Ruggedised fanless computer in grey aluminium chassis, with passive cooling system without fans for protection in dusty environments.

It has **4 LAN ports**. **2 DB9 CAN ports**. **16 programmable GPIOs**. **4 available USB 3.0 ports**. **2 Display Port ports**. **12V/24V power supply**.



Interior

TECHNICAL SPECIFICATIONS

Direct Importer: Grupo EOS Ibérica
Processor: Intel i7 1235u 4.7Ghz
Resolution: 7680 x 4320 @ 60Hz (8K-DP)
RAM: Supports up to 64GB 4800MHz SODIMM
STORAGE: SSD m.2 2280 NVMe / Mini PCI-e
Audio: No audio output
Socket: 2x DDR5 RAM
Ports: 4xUSB 3.0 / 2xDP
LAN: 3xIntel i210 lan + 1xIntel i219 lan (LAN1 support Vpro).
CAN: 2 DB9 ports
OS: Windows 7, 8, 10, 11 Linux Compatible
Power supply: DC 24V (4A)
Power consumption: ~30-65 watts
Vibration: Highly resistant to vibrations
Humidity: 5% ~ 95% (non-condensing)
Operating temperature: -20°C~60°C
Storage temperature: -30°C~80°C
Warranty: 1 year (extendable to 3 years)

OTHER TECHNICAL DATA

Mounting Type: Embedded yes, VESA no, RACK yes (with tray), DIN yes.
Processor Frequency: Min. 3.3 GHz, Max turbo 4.4 GHz, 12MB Cache
Graphics: Intel® Iris® Xe Graphics
RAM: 0 GB on board + 2 DDR5 sockets
ALMAC: 1xM.2 slot + 1xMSATA slot
Audio: No audio output.
LAN: 4 Ethernet 3xIntel i210 LAN + 1xIntel i219 LAN (LAN1 supports Vpro).
GPIO: 16 programmable inputs/outputs.
Power: 1 x Power Button + 1 x Clear CMOS button
IP protection: IP50. Dust ingress cannot be prevented, but it must not enter in such quantities as to interfere with the proper functioning of the equipment. No water protection.
Waterproof case: For greater IP protection (OPTIONAL)
Dimensions: 205 x 146 x 50 mm
Weight: 1.54 kg
Packing: Individual box; PC, power supply, power cable.

I/O PORTS



Front



Rear

CONNECTIVITY OPTIONS

This industrial PC, with its **2 CAN + GPIO** expansion card, occupies the mini PCIe socket on the motherboard, making it impossible to install the Wi-Fi/4G module.

You can request an internal modification and sacrifice a USB port in order to have the option of installing the Wi-Fi/4G module.

PRODUCT VALUES

- > 24V voltage range
- > High-performance processor, compatible with Windows 11.
- > 2 CAN (Controller Area Network) ports
- > 4 RJ45 LAN network connections.
- > Resistant to harsh environments; dust, grease, vibrations.
- > Very low power consumption.
- > Significant number of USB/COM connections.

MOST COMMON APPLICATIONS

- > Machine vision
- > Automation
- > Robot guidance
- > Industrial control systems (ICS)
- > Metrology
- > Distributed control systems / SCADA
- > Data acquisition systems (DAQs)
- > Product sorting
- > Assembly lines on the factory floor
- > Assembly in transport vehicles
- > Wireless station (Wi-Fi/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
- > Artificial vision machine

ALTERNATIVE REFERENCES

- > Pc industrial i5 1135g7 V2
- > Pc industrial i5 1235u

CERTIFICATIONS



INSTALLATION METHODS



CONNECTIONS and DIMENSIONS

