

Embedded PC Series

Fanless Industrial Computers

Industrial Components



Elevation

12th Generation Intel Celeron Industrial PC up to 2.6 GHz with J6412 Processor (Quad-Core / 4 Threads)

Rugged fanless computer housed in a black aluminium chassis, featuring a passive cooling system without fans to provide protection in environments with high levels of dust.

Equipped with **2 COM ports (1 configurable as RS485)**, 6 USB 3.0 ports, HDMI and VGA interfaces. Optional integration of a **Wi-Fi/Bluetooth** or **4G/GPS** module. Powered by a 12V DC supply.



Indoor

TECHNICAL SPECIFICATIONS

Direct Importer: Grupo EOS Ibérica SA
CPU + PCH: Intel® Elkhart Lake SoC CPU: Celeron J6412, 2.0–2.6 GHz, 4 cores and 4 threads.
System Memory: 1 × 260-pin DDR4 SO-DIMM slot, supporting up to 3200 MHz and a maximum capacity of 32 GB.
Expansion: 1 × Full-Size Mini PCIe (PCIe x1 + USB 2.0 signal), with SIM card slot; supports 4G LTE, Wi-Fi + Bluetooth WLAN, or CAN bus module.
Intel Graphics: Intel Gen10 UHD Graphics. Hardware encoding: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG, VP8. Hardware decoding: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8, VP9. HDMI 2.0 up to 4096 × 2304 @ 60 Hz, 4K UHD.
LAN: 2 × Intel I226V PCIe Gigabit Ethernet ports, 10/100/1000 Mbps, supporting WOL.
Storage: 1 × Full-Size mSATA, 6.0 Gbps, supporting AHCI.

OTHER TECHNICAL DATA

Rear I/O: 1 × HDMI; 2 × Gigabit LAN (RJ45); 2 × USB 3.1 (Type-A); 2 × USB 2.0 (Type-A). 1 × RS232/422/485 (selectable via BIOS) + 1 × RS232, with a 3-wire signal design on 1 × DB9 male connector. 1 × Multi-I/O: 8-bit DIO (default); optional Mini PCIe module with 2 × CAN 2.0, provided on 1 × DB9 male connector.
LED Indicators: 1 × Power LED; 1 × HDD LED; 3 × CPU Temperature LEDs (Red = warning, Yellow = high, Green = normal).
Control Switches: 1 × Power switch, 1 × AT/ATX switch, 1 × Clear CMOS switch.
Power Supply: 9 ~ 36V, support OVP, OCP and SCP TDP: 15.6W (Cel J6412, 32G DDR4, 128G mSATA)
Watchdog Timer Programmable: timeout interrupt or system reset, 1 to 255 seconds
OS Support: RTOS: INtime, EC-Win, RTX-2014/2016 and Ubuntu Preempt-RT / Windows 11, Windows 10, SUSE, Ubuntu, Wind River, Red Hat Enterprise
Structure: Aluminium-magnesium alloy chassis and fanless cooling design, SGCC frame
Mounting: Desktop mounting, optional DIN-rail Rail mounting and wall mounting.
Dimension: (W*H*D) 130*100*40mm (Not install mounting kits) **Net weight** 750g
Operating temperature: -20°C~60°C (Including air flow, wide operating temp. SSD)
Storage Temperature: -40°C~85°C
Storage Humidity: 10~95% @ 40°C, Non-condensing
Vibration: 5grms/5~500Hz/random/in working (SSD)
Shock: 50g peak acceleration (11ms duration) (SSD)
Certification: EMC CE/FCC Class A

I/O PORTS



Front



Side

CONNECTIVITY OPTIONS



PRODUCT FEATURES

- > Ultra-compact and lightweight
- > Efficient power consumption and robustness
- > Optimised BIOS with native support for RTOS operating systems (such as Ubuntu Preempt-RT and INtime)
- > Flexible and secure power supply (9–36 V)

MOST COMMON APPLICATIONS

- > Motion control and CNC
- > Basic machine vision
- > Field data acquisition
- > Edge communications

APPLICATION SECTORS

- > Industrial automation
- > Robotics
- > Environmental monitoring
- > Industrial Internet of Things (IIoT)
- > Smart logistics

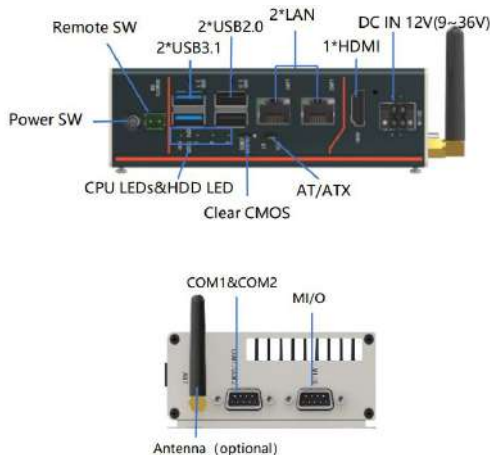
SOME SUCCESS STORIES

- > Smart warehouse solutions (AGVs)

CERTIFICATIONS



CONNECTIONS



CONNECTIONS AND DIMENSIONS

