01 Product Overview

Vibration | Lightning | Dust/Oil | ESD | Wide Temp. | EMI



The CESIPC EPC-309C (wide-temperature version) industrial computer is a high-performance embedded computing platform designed for unattended operation in high-altitude cold industrial sites. Based on the 10th Gen Intel® Core™ processor platform, it balances performance and energy efficiency, features dual Gigabit Ethernet and rich I/O interfaces, and supports 9-36V wide-voltage DC power input, adapting to solar and complex industrial power environments. The system supports wireless communication expansion and integrates CESIPC FlexCore™ modular architecture and SafeCore™ reliability enhancement technology, ensuring stable system operation while achieving high maintainability and long-term reliability. It is suitable for industrial control, machine vision, data acquisition and monitoring applications.

Features

FlexCore | SafeCore | Fanless | 9~36V | Dual LAN | Wi-Fi | 4G LTE | USB 3.0 | USB 2.0 | HDMI | RS-232 | RS-485 | M.2 Slot | TPM 2.0

Certifications

CCC | ISO9001

Key Features

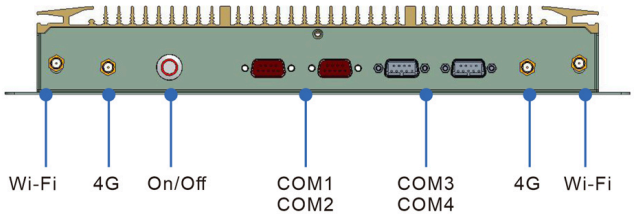
- ★ Core: Equipped with 10th Gen Intel® Core™ processors, available in i7/i5/i3 versions, balancing high performance and low power consumption;
- ★ Ethernet: Dual Intel I210 network cards, suitable for industrial cameras, support PTP clock synchronization, low latency and low packet loss, stable transmission;
- ★ Rich I/O interfaces: Multiple USB and serial ports, adapting to various industrial equipment connections;
- ★ Expansion: Supports 1x Mini PCIe module expansion; (optional Wi-Fi, Bluetooth, LoRa, 4G/5G communication modules, etc.);
- ★ Power: 3-pin Phoenix terminal power input interface, easy and reliable connection;
- ★ Technology: CESIPC FlexCore™ modular design, combining expandability and high maintainability;
- ★ Reliability: FANLESS fanless cooling, reliable and stable, maintenance-free design;
- ★ Supports CESIPC SafeCore™ reliability enhancement technology, preventing power failure damage and ensuring long-term stable system operation;
- ★ Hardware-level auto power-on design, restarts when power is restored, ensuring continuous operation in unattended scenarios;
- ★ Structure: 6061 high-strength aluminum alloy + sheet metal structure, industrial-grade rugged chassis;
- ★ OS: Supports Windows 10 / Windows 11 / CentOS / Ubuntu and other common operating systems.

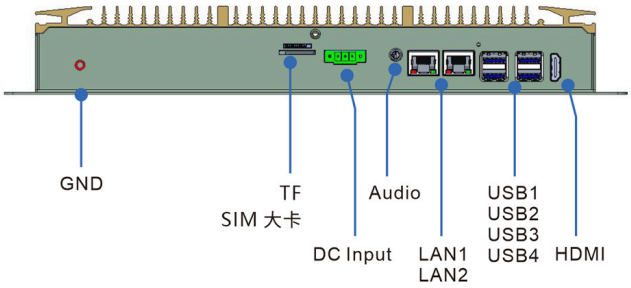
02 Product Images





03 I/O Interface





04 Technical Specifications

• Core Hardware

Parameter	Intel® Core™ i3-10110U	Intel® Core™ i5-10210U	Intel® Core™ i7-10510U
Processor	i3-10110U	i5-10210U	i7-10510U
Cores	2	4	4
Threads	4	8	8
Frequency	2.1~4.1 GHz	1.6~4.2 GHz	1.8~4.9 GHz
Cache	4MB	6MB	8MB
TDP	15W		
Integrated Graphics	Intel UHD Graphics 620		
Memory	4~32GB DDR4		
Storage	1×M.2 SATA + 1×M.2 NVMe		

I/O Interfaces

Parameter	Specification
USB 3.0	4 × USB 3.0
RS-232	2 × RS232
RS-485	2 × RS485
HDMI	1 × HDMI
RJ45	2 × Intel I210 (10/100/1000M adaptive Ethernet)
Audio	1 × 3.5mm TRRS
Wi-Fi	Dual-band 2.4G/5G wireless card
4G/5G	4G LTE full network (standard SIM card)
LORA	(optional)

Power Input

Parameter	Specification
Power Connector	1x 3-pin pluggable terminal, supports 9~36V DC wide voltage input
Startup Mode	AT/ATX mode switch (built-in)
POWER Switch	1× ATX power switch (with indicator light)

Product Attributes

Parameter	Specification
Dimensions	337 (L) × 160 (W) × 47.5 (H) mm
Installation Dimensions	327 (L) × 100 (W) mm
Weight	2.25 KG net weight
Chassis Material	6061 high-strength aluminum alloy
Mechanical Structure	Aluminum extrusion + sheet metal structure
Mounting	Bracket mount / VESA standard wall mount
Reset Switch	1× reset switch
TPM	TPM 2.0
Watchdog	Hardware watchdog supported
MTBF	60,000 hrs

Operating Environment

Parameter	Specification
Operating Temp.	-40~80℃
Storage Temp.	-40~80℃
Humidity	10%~90%, non-condensing
Altitude	≤3000m rated performance; 2000~6000m derate 5℃ per 1000m
IP Rating	IP54
EMC	CE, FCC (EN 55032 & EN 55035)
EMC Harmonics	EN IEC 61000-3-2

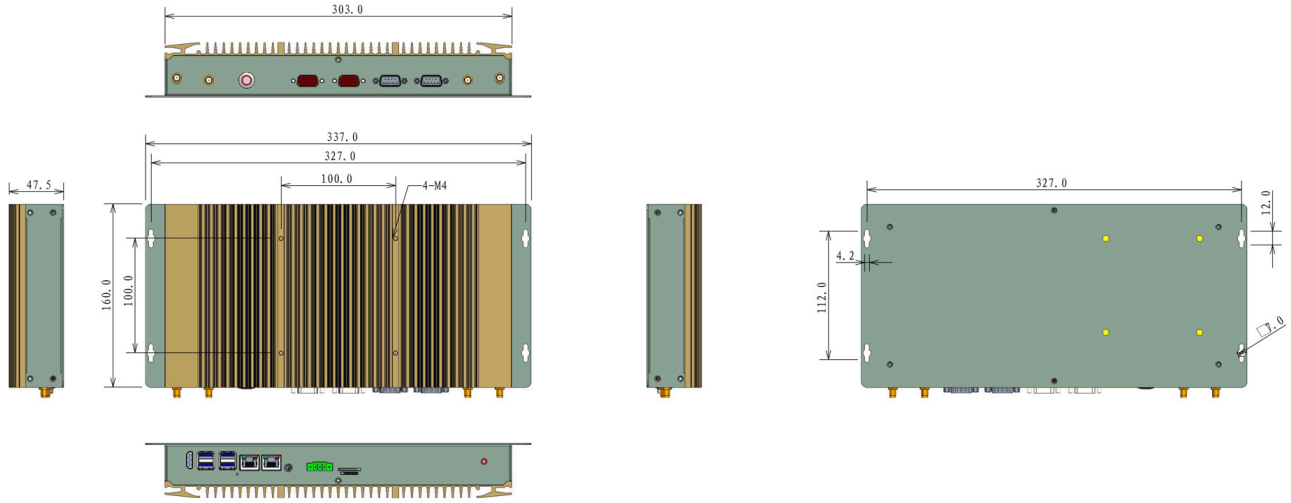
Operating System

Parameter	Specification
Windows	Windows 10 / Windows 11
Linux	Ubuntu 16.04 / 18.04 / 20.04 / 22.04

Certifications & Compliance

Parameter	Specification
Factory Cert.	ISO9001: 2015
BIOS Customization	BIOS / Boot LOGO / OEM

05 Mechanical Dimensions



06 Applications



Industrial Manufacturing



Smart Transportation



New Energy



Equipment Control

07 Ordering Information

NO.	Model	Part No.	Processor	Memory	Storage
1	EPC-309C	C10.03.03.006	Intel® Core™ i3-10110U	8GB DDR4	SSD 256GB
2	EPC-309C	C10.03.03.007	Intel® Core™ i3-10110U	16GB DDR4	SSD 256GB
3	EPC-309C	C10.03.03.010	Intel® Core™ i5-10210U	16GB DDR4	SSD 512GB
4	EPC-309C	C10.03.03.004	Intel® Core™ i7-10510U	16GB DDR4	SSD 2TB

※ Note: Due to market fluctuations, key components such as CPU models, memory, and hard drives may change. Please consult our sales team for details.

※ Specifications subject to change without notice. Data measured under standard test conditions.
For customization or support, contact CESIPC: 0755-85286060 · sales@cesipc.com · www.cesipc.com
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