01 Product Overview

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

The UPC-206A is a fanless industrial computer based on the Intel® Celeron® J1900 processor, featuring 6 USB ports, 2 Gigabit Ethernet ports, and HDMI + VGA dual display outputs to meet diverse industrial device connectivity needs. It uniquely integrates a Phoenix terminal block supporting 1 CAN bus, 1 RS485, and 2 RS232 communication interfaces for easy connection to various industrial control devices. It is ideal for applications requiring rich communication interfaces, such as industrial automation, rail transit, and energy management.



Features

FlexCore | SafeCore | Fanless | 9~36V | Dual LAN | Wi-Fi | Bluetooth | USB 3.0 | USB 2.0 | HDMI | VGA | RS-232 | RS-485 | CAN BUS | VESA Mount | TPM 2.0

Certifications

CCC | ISO9001

Key Features

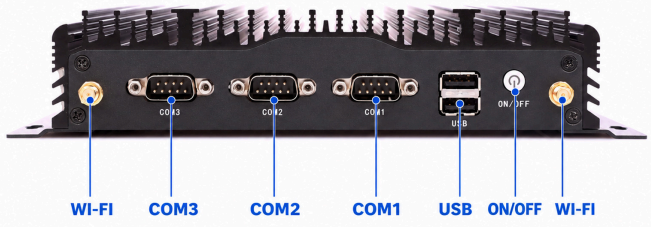
- CAN bus: Supports 1 CAN bus;
- Core: Powered by Intel® Celeron® J1900 embedded 4-core processor, economical and reliable;
- Ethernet: Dual Gigabit Ethernet ports ensure high-speed and stable industrial network communication;
- Rich I/O: 1 USB3.0, 5 USB2.0, 2 RS232, 1 RS485;
- Expansion: Supports 1x Mini PCIe Wi-Fi module expansion (optional Wi-Fi, Bluetooth, 4G/5G);
- Technology: FlexCore™ modular design for scalability and high maintainability;
- Reliability: FANLESS cooling, supports SafeCore™ power failure protection;
- Structure: 6061 high-strength aluminum alloy + sheet metal structure, industrial-grade rugged chassis;
- OS support: Native Windows 7, compatible with Windows 10 and mainstream Linux.

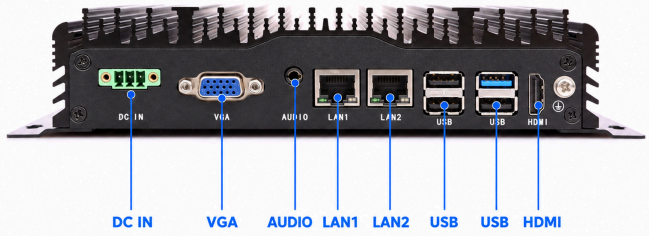
02 Product Images





03 I/O Interface





04 Technical Specifications

• Core Hardware

Parameter	Specification
Processor	Intel® Celeron® J1900
Cores	4
Threads	4
Frequency	2.0~2.42 GHz
Cache	2 MB L2 Cache
TDP	10W
Graphics	Intel HD Graphics
Memory	DDR3L 4~8GB
Storage	1× mSATA SSD

I/O Interfaces

Parameter	Specification
USB 2.0	5 × USB 2.0
USB 3.0	1 × USB 3.0
RS-232	2 × RS232
RS-485	1 × RS485
VGA	1 × VGA
HDMI	1 × HDMI
Gigabit Ethernet	2 × LAN
Audio	1 × 3.5mm TRRS
Wi-Fi (optional)	Dual-band 2.4G/5G wireless card
4G/5G (optional)	/
CAN	1 CAN BUS

Power Input

Parameter	Specification
Power Connector	1x 2-pin pluggable terminal block, supports 9~36V DC wide voltage input
ATX Switch	1× ATX power switch
Boot Mode	AT/ATX mode switch (built-in)

Product Attributes

Parameter	Specification
Dimensions	229 (L) × 160 (W) × 46 (H) mm
Mounting Dimensions	219 (L) × 100 (W) mm
Weight	1.4 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.	0~60℃ (wide temp. -40~80℃ optional)
Storage Temp.	-10~70℃ (wide temp. -40~80℃ optional)
Humidity	10%~90%, non-condensing
EMC	CE, FCC (EN 55032 & EN 55035)
EMC Harmonics	EN IEC 61000-3-2

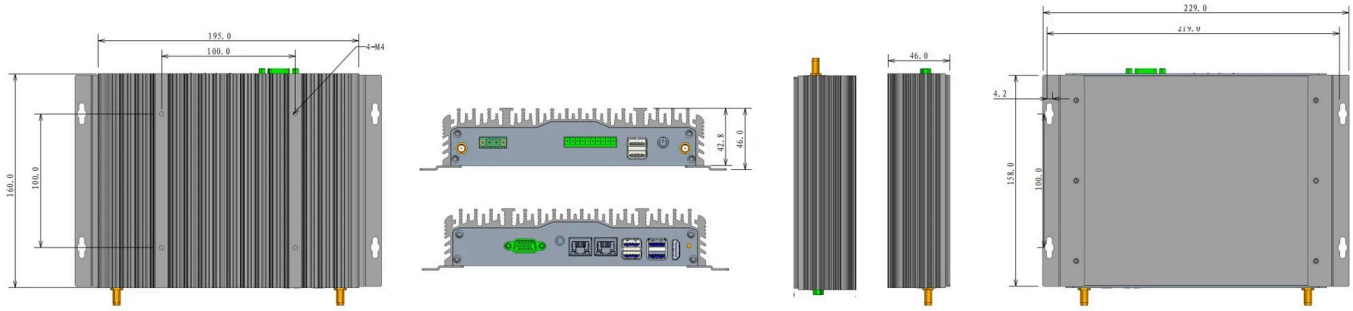
Operating System

Parameter	Specification
Windows	Windows 7 / 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



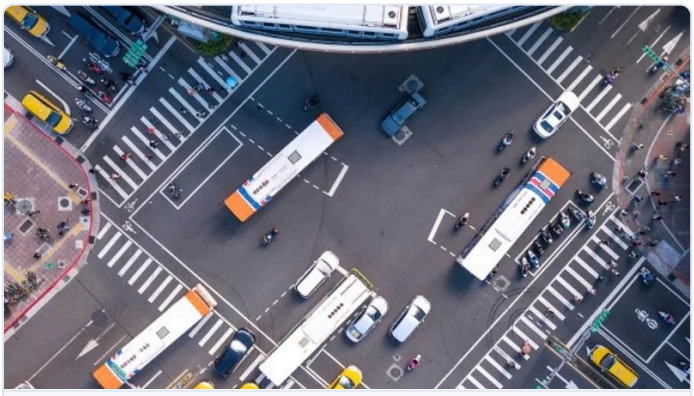
06 Applications



Industrial Equipment Control



Data Acquisition



Transportation



Energy

07 Ordering Information

NO.	Model	Part No.	Processor	Memory	Storage
1	UPC-206A	C8.02.01.020	Intel® Celeron® J1900	8GB DDR3L	SSD 512GB

※ 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.cn
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