



NANO200 User Manual

Issue 1.0

www.CoreIPC.com

Security Guidance

Copyright Statement

© 2026 CoreIPC. All rights reserved.

All trademarks and trade names mentioned in this user manual are the property of their respective owners.

Disclaimer

- This user manual is protected by copyright, and all content contained herein is the property of CoreIPC.
- CoreIPC reserves the right to modify the product specifications or related information contained in this user manual.
- Any changes to the product specifications or related information may be made without prior notice.
- No part of this user manual may be reproduced, modified, reprinted, distributed, or published in any form without prior written permission from CoreIPC.
- To ensure proper and safe use of the CoreIPC NANO200, please read this user manual carefully before installation and operation.
- Please read all safety instructions and product specifications carefully before using the product.
- When contacting CoreIPC for technical support, please provide the product model, configuration, and other relevant product information for identification.

Basic Safety Tips

1. Before using this product, please read this manual carefully and keep it for future reference.
2. Make sure the power outlet is easily accessible when using the device.
3. Before connecting the device to a power outlet, verify that the power supply voltage meets the product requirements.
4. Route the power cord properly to avoid tripping hazards, and do not place any heavy objects on the power cord.
5. Before cleaning the device, disconnect the power cord from the power outlet. Do not use liquid cleaners or spray cleaners directly on the device. Use a dry or slightly damp cloth instead.
6. Before installation, make sure the device is placed on a stable and reliable surface to prevent accidental drops or damage.
7. If the device will not be used for an extended period, disconnect it from the power outlet to avoid possible damage caused by excessive voltage fluctuations.
8. Do not store the device outside the recommended temperature range. The storage temperature should not be lower than -30°C or higher than 70°C.
9. Do not allow any liquid to enter the device, as this may cause a short circuit, electric shock, or fire.

10. Do not open or disassemble the device by yourself. For safety reasons, servicing should only be performed by qualified technical personnel or authorized engineers.
11. Before connecting or disconnecting external devices, cables, or optional modules, it is recommended to power off the system first.

CoreIPC

Ordering Information

Model	Processor	Memory	Storage	Wireless Options
NUC62R-N22-J6412	J6412	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32R-N22-N100	N100	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32R-N22-N97	N97	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32R-N22-N150	N150	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32R-N22-N300	i3-N300*	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32R-N22-N305	i3-N305*	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS

Note: * For N300 / N305 configurations, please contact CoreIPC to confirm the operating environment and thermal conditions before ordering.

1. Product Description

The NANO200 is a compact fanless industrial PC designed for reliable operation in industrial and embedded applications. It features a passive cooling chassis with no moving fan, helping improve system reliability and reduce maintenance requirements.

The system supports up to four Intel® I226-V Ethernet ports, two COM ports, and six USB ports, including four USB 3.0 and two USB 2.0 ports, providing flexible connectivity for various industrial devices and peripherals. It also supports optional 4G, Wi-Fi and Bluetooth modules for wireless communication and remote connectivity.

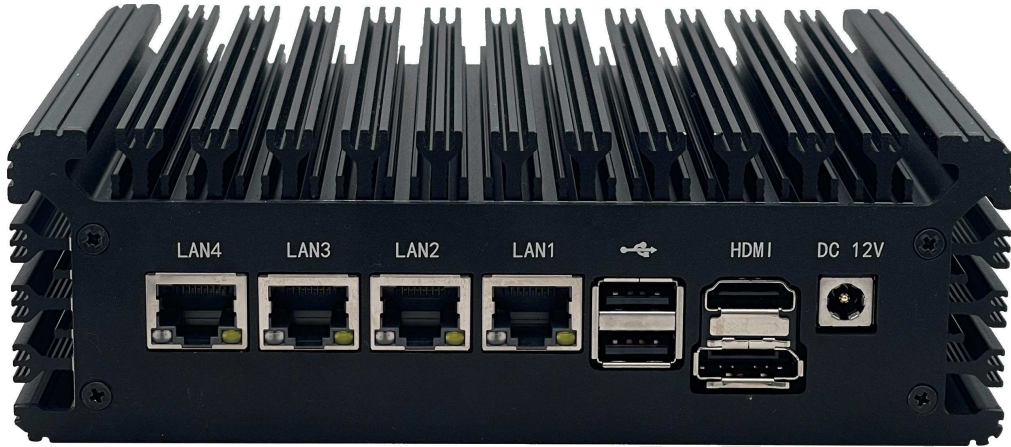
The NANO200 supports multiple processor configurations, including Intel® J6412, N100, N97, N150, i3-N300 and i3-N305, with selectable memory and storage capacities to meet different performance requirements.

With its compact size, fanless design and wall-mount support, the NANO200 is suitable for space-constrained industrial installations and applications requiring stable, continuous operation.

The main features of the ITX310D motherboard are as follows:

- Fanless passive cooling design for reliable and quiet operation
- Supports up to 4 × Intel® I226-V Ethernet ports
- 2 × COM ports for industrial serial communication
- 6 × USB ports, including 4 × USB 3.0 and 2 × USB 2.0
- Optional Wi-Fi / Bluetooth and 4G / GPS expansion
- Supports multiple Intel® processor options, including J6412, N100, N97, N150, i3-N300 and i3-N305
- Supports 4GB / 8GB / 16GB / 32GB memory options
- Supports 64GB / 128GB / 256GB / 512GB storage options
- Compact chassis design: 163.45 × 126 × 53 mm
- Supports wall-mount installation
- Supports Windows and Linux operating systems
- Supports power-on after AC recovery

2. Product Images



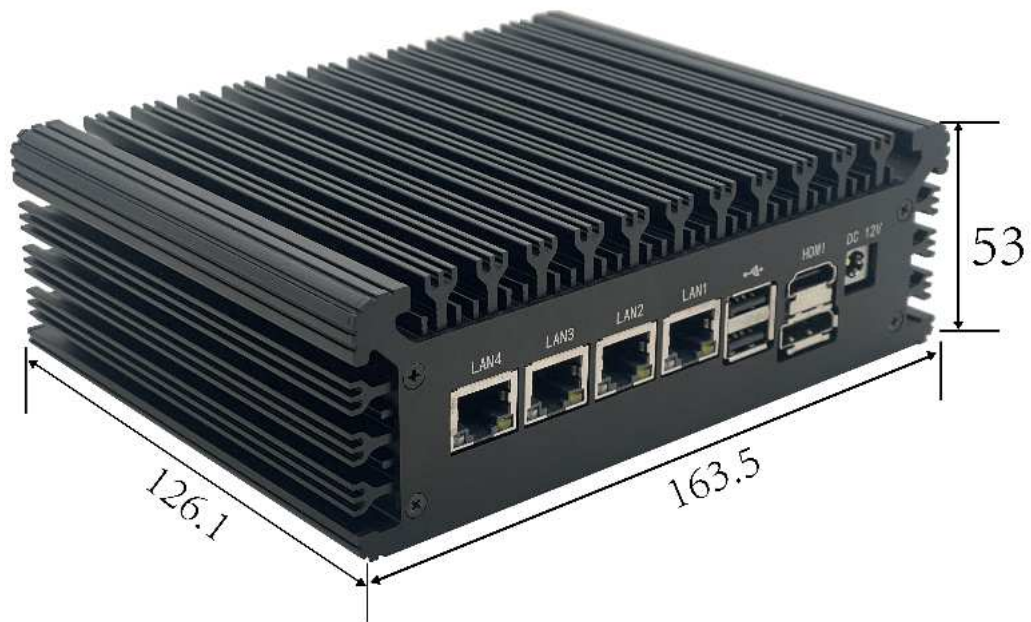
Front I/O View

4 × LAN, 2 × USB, HDMI and 12V DC power input



Rear I/O View

4 × USB, 2 × COM, power button and audio interface

**NANO200 Overall Dimensions**

3. Chassis Specifications

Model	NANO200
Dimensions	163.45 x 126 x 53mm
Standard Items	Chassis, packaging materials, Wi-Fi antenna-hole plugs, screws, thermal pads
Optional Items	Storage drive bracket, memory, storage drive, 4G / Wi-Fi module

CoreIPC

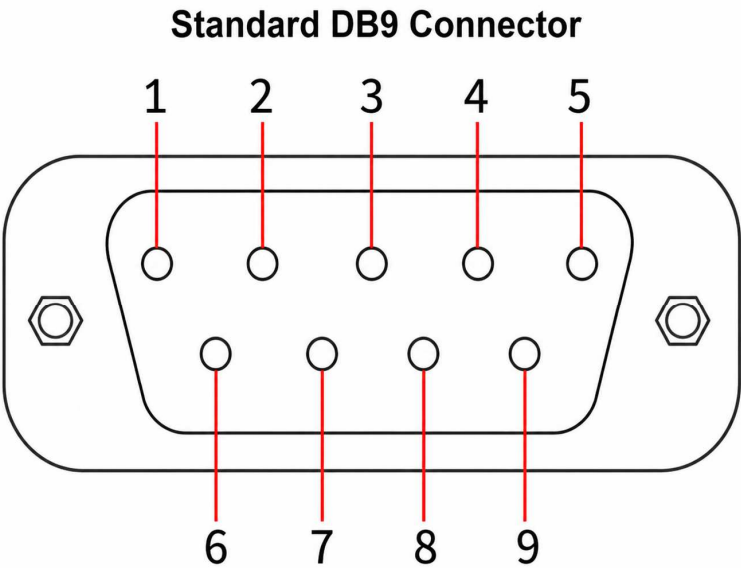
4. System Configuration

Configuration	Available Options
NUC62R-N22-J6412	Intel® Celeron® J6412, 4 Cores, 2.00 GHz
NUC32R-N22-N100	Intel® Processor N100, 4 Cores, up to 3.4 GHz
NUC32R-N22-N97	Intel® Processor N97, 4 Cores, up to 3.6 GHz
NUC32R-N22-N150	Intel® Processor N150, 4 Cores, up to 3.6 GHz
NUC32R-N22-N300	Intel® Processor i3-N300, 8 Cores, up to 3.8 GHz (See Note)
NUC32R-N22-N305	Intel® Processor i3-N305, 8 Cores, up to 3.8 GHz (See Note)
Memory	4G/8G/16G/32G
Storage	64G/128G/256G/512G
Network	Dual Gigabit Ethernet, single LAN optional
Operating System	Windows / Linux
I/O Ports	6 × USB, 2 × COM
WIFI	Optional, supports Wi-Fi / Bluetooth
4G	Optional, supports 4G; 4G / GPS also available
Power Input	Standard 12V DC input, 5.5 mm outer diameter / 2.5 mm inner diameter
Power Adapter	Standard AC-DC 12V / 5A, 60W
Power-on Mode	Power button by default; power-on after AC recovery can be configured
Cooling	Fanless passive chassis cooling
Operating Environment	-20°C to 50°C, 5%–95% relative humidity, non-condensing
Storage Temperature	-30°C to 70°C
Package Contents	1 × chassis/system, 1 × power adapter, 1 × power cord, 1 × screw pack

Note:

The N300 / N305 processors have relatively higher power consumption and heat output, resulting in greater thermal requirements for the system. Before selecting these configurations, please contact CoreIPC to confirm the actual operating environment and cooling conditions to ensure stable system operation.

5. Port Definition



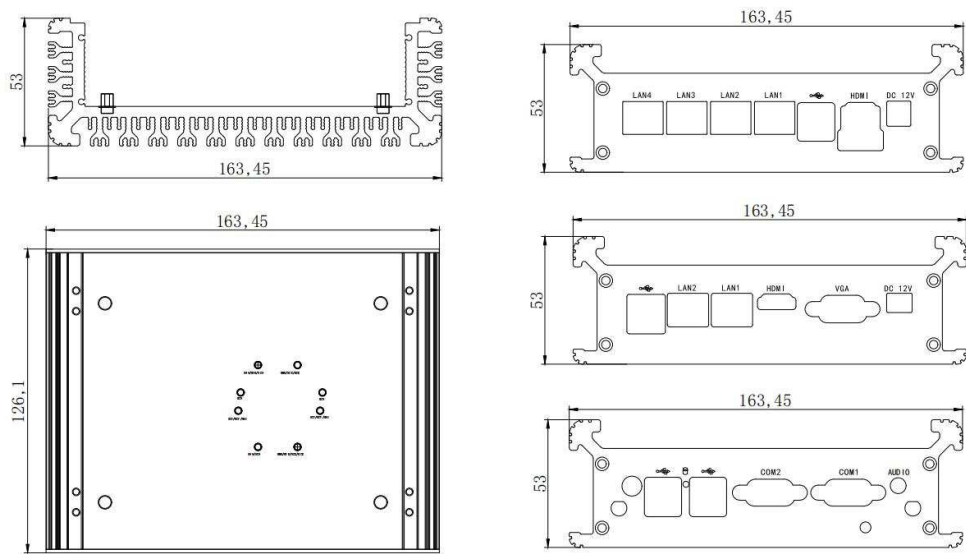
COM1/2 — RS232 Pin Definition

Pin	Definition	Pin	Definition
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

COM1/2 — RS485 Pin Definition

Pin	Definition	Pin	Definition
1	TXD-RS485_A	2	RXD_RS485-B
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

6. Mechanical Dimension



7. Warranty

CoreIPC provides the original purchaser with a one-year limited warranty from the date of purchase.

During the warranty period, if the product is found to be defective under normal use, CoreIPC will provide repair or replacement service free of charge. The warranty does not cover products that have been repaired or modified by unauthorized personnel, or damage caused by improper use, accidents, disasters, or incorrect installation.

For products outside the warranty period, repair service may still be available, and material and labor charges may apply. Please contact your CoreIPC sales representative for detailed service information.

CoreIPC