



NANO200 User Manual

Issue 1.0

www.CoreIPC.com

Security Guidance

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- 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 system configuration table specifies a storage temperature of -30°C to 70°C. The source safety section separately states -20°C to 70°C; please confirm the applicable storage limit for the selected configuration before deployment.

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.

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Ordering Information

Model	Processor	Memory	Storage	Wireless Options
NUC62D-N22-J6412	Intel® Celeron® J6412, 4 cores, 2.00 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC50D-N22-N5095	Intel® Celeron® N5095, 4 cores, 2.00 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC50D-N22-N5105	Intel® Celeron® N5105, 4 cores, 2.00 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N100	Intel® Processor N100, 4 cores, up to 3.4 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N97	Intel® Processor N97, 4 cores, up to 3.6 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N150	Intel® Processor N150, 4 cores, up to 3.6 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N300	Intel® Core™ i3-N300, 8 cores, up to 3.8 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N305	Intel® Core™ i3-N305, 8 cores, up to 3.8 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-4200U	Intel® Core™ i5-4200U, 2 cores, 1.80 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-4300U	Intel® Core™ i5-4300U, 2 cores, 1.90 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-4600U	Intel® Core™ i7-4600U, 2 cores, 2.10 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5005U	Intel® Core™ i3-5005U, 2 cores, 2.00 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5200U	Intel® Core™ i5-5200U, 2 cores, 2.20 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5300U	Intel® Core™ i5-5300U, 2 cores, 2.30 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5600U	Intel® Core™ i7-5600U, 2 cores, 2.60 GHz	4GB / 8GB / 16GB / 32GB	64GB / 128GB / 256GB / 512GB	Wi-Fi / BT / 4G / GPS

Note: The chassis supports multiple internal motherboard and processor configurations. Please confirm the final motherboard, processor, I/O and wireless configuration before ordering.

1. Product Description

The NANO200 is a compact fanless industrial PC designed for stable, continuous operation in industrial and embedded applications. Its passive aluminum cooling chassis has no moving fan, helping improve reliability and reduce maintenance requirements.

The system supports two Gigabit Ethernet ports (single-LAN option available), two COM ports, and six USB ports, including four USB 3.0 and two USB 2.0 ports. It also supports optional Wi-Fi / Bluetooth and 4G / GPS modules for wireless communication and remote connectivity.

The NANO200 supports multiple processor platforms, including Intel® J6412, N5095, N5105, N100, N97, N150, i3-N300, i3-N305, Core™ i5-4200U, i5-4300U, i7-4600U, i3-5005U, i5-5200U, i5-5300U and i7-5600U, with selectable memory and storage capacities.

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

The main features of the NANO200 are as follows:

- Fanless passive cooling chassis
- 2 × Gigabit Ethernet ports; single-LAN option available
- 2 × COM ports for industrial serial communication
- 6 × USB ports: 4 × USB 3.0 + 2 × USB 2.0
- Optional Wi-Fi / Bluetooth and 4G / GPS expansion
- Multiple Intel® processor options: J6412 / N5095 / N5105 / N100 / N97 / N150 / i3-N300 / i3-N305 / i5-4200U / i5-4300U / i7-4600U / i3-5005U / i5-5200U / i5-5300U / i7-5600U
- Memory options: 4 GB / 8 GB / 16 GB / 32 GB
- Storage options: 64 GB / 128 GB / 256 GB / 512 GB
- Compact chassis: 163.45 × 126 × 53 mm
- Wall-mount installation supported
- Windows / Linux operating system support
- Power button startup by default; power-on after AC recovery can be configured

2. Product Images



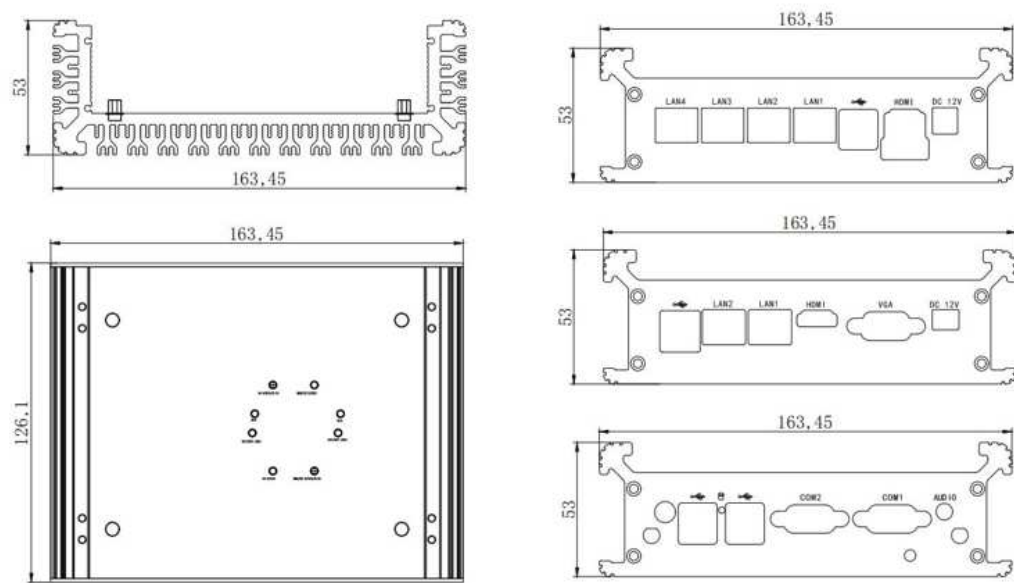
Front I/O View

2 × LAN, 2 × USB, HDMI, VGA and 12 V 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 × 126 × 53 mm
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

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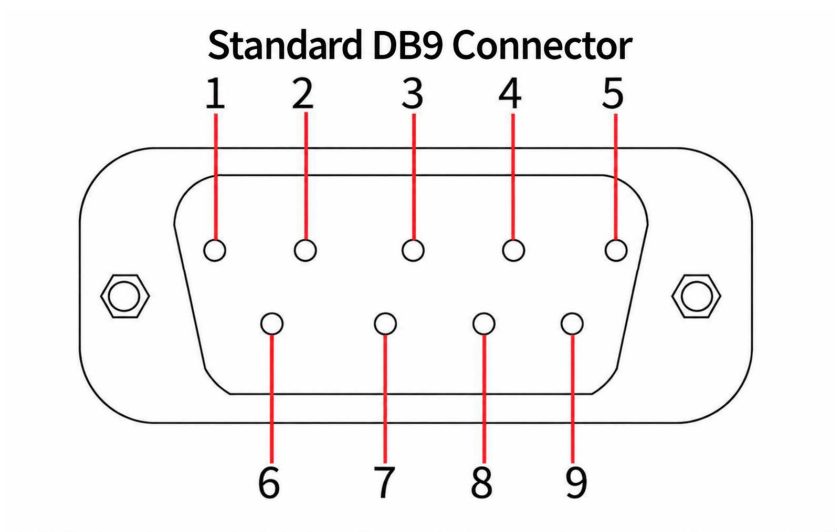
4. System Configuration

Configuration	Available Options
Processor / Motherboard	See Ordering Information for the 15 source-listed platform options.
Memory	4 GB / 8 GB / 16 GB / 32 GB
Storage	64 GB / 128 GB / 256 GB / 512 GB
Network	Dual Gigabit Ethernet; single-LAN optional
Operating System	Windows / Linux
I/O Ports	6 × USB, 2 × COM
Wi-Fi	Optional; supports Wi-Fi / Bluetooth
4G	Optional; supports 4G; 4G / GPS also available
Power Input	12 V DC, 5.5 mm outer diameter / 2.5 mm inner diameter
Power Adapter	Standard AC-DC 12 V / 5 A, 60 W
Power-on Mode	Power button by default; power-on after AC recovery configurable
Cooling	Passive chassis cooling
Operating Environment	-20°C to 50°C; 5%-95% RH, non-condensing
Storage Temperature	-30°C to 70°C in the configuration table
Package Contents	1 × chassis/system, 1 × power adapter, 1 × power cord, 1 × screw pack

Configuration Note:

The source document lists a wide range of internal motherboard/processor options for this NANO200 chassis. Interface layout and available functions may vary with the selected internal platform. Confirm the final motherboard, processor, network, serial and display configuration before ordering.

5. Port Definition



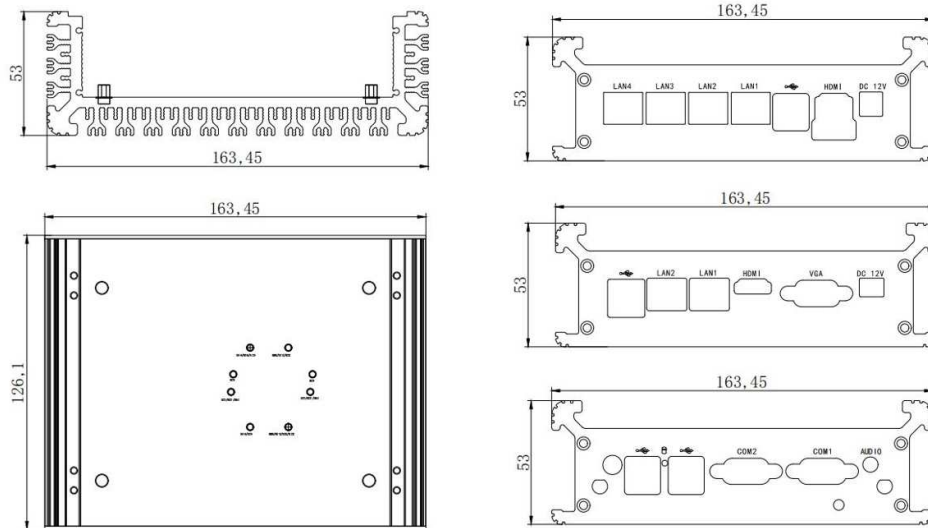
COM1/2 — RS232 Pin Definition

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.

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