

CoreIPC

NANO200

Fanless Industrial PC Datasheet

4 x LAN | 2 x COM | Multi-Platform

Document	Datasheet
Model	NANO200
Issue	1.0
Product Type	Fanless Industrial PC
Website	www.CoreIPC.com

This datasheet is prepared based on NANO200 User Manual Issue 1.0.

1. Product Overview

The NANO200 is a compact CoreIPC fanless industrial PC designed for reliable continuous operation in industrial and embedded applications. It features a passive cooling chassis, up to four Intel® I226-V Ethernet ports, two COM ports, six USB ports, HDMI display, optional Wi-Fi / Bluetooth and 4G / GPS connectivity, multiple Intel® processor options, and wall-mount installation support.

2. Key Features

- Fanless passive cooling design with no moving fan for quiet operation and reduced maintenance.
- Supports Intel® J6412, N100, N97, N150, i3-N300, and i3-N305 processor configurations.
- Memory options: 4 GB / 8 GB / 16 GB / 32 GB; storage options: 64 GB / 128 GB / 256 GB / 512 GB.
- Up to 4 x Intel® I226-V Ethernet ports for industrial networking applications.
- 6 x USB ports: 4 x USB 3.0 and 2 x USB 2.0.
- 2 x COM ports for industrial serial communication; the source manual provides both RS232 and RS485 pin definitions for COM1/COM2.
- Optional Wi-Fi / Bluetooth and 4G / GPS wireless expansion.
- Standard 12 V DC input; supplied AC-DC adapter is specified as 12 V / 5 A, 60 W.
- Power-on after AC recovery can be configured; power button operation is the default.
- Compact 163.45 x 126 x 53 mm fanless chassis with wall-mount support; operating environment -20°C to 50°C.

3. Technical Specifications

Category	Specification
Processor Options	Intel® Celeron® J6412; Intel® Processor N100 / N97 / N150; Intel® Core™ i3-N300 / i3-N305.
Memory Options	4 GB / 8 GB / 16 GB / 32 GB.
Storage Options	64 GB / 128 GB / 256 GB / 512 GB.
Graphics / Display	1 x HDMI display output.
Ethernet	Up to 4 x Intel® I226-V Ethernet ports according to Product Description and product images.
USB	6 x USB total: 4 x USB 3.0 + 2 x USB 2.0.
Serial Ports	2 x DB9 COM ports. Source manual provides RS232 and RS485 pin definitions for COM1/COM2.
Audio	1 x audio interface shown on rear I/O.
Wireless Options	Optional Wi-Fi / Bluetooth; optional 4G; 4G / GPS also available.
Operating System	Windows / Linux.
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 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.
Dimensions	163.45 x 126 x 53 mm.

4. I/O Interface Summary

4.1 Front I/O

Interface	Description
LAN	4 x LAN ports.
USB	2 x USB ports.
Display	1 x HDMI.
Power	1 x 12 V DC power input.
Chassis	Fanless finned aluminum enclosure.

4.2 Rear I/O

Interface / Control	Description
USB	4 x USB ports.
Serial	2 x DB9 COM ports.
Audio	1 x audio interface.
Power Button	1 x power button.
Mounting	Wall-mount installation supported.

5. Processor and Platform Options

NANO200 is offered with multiple internal platform configurations. The source manual lists J6412, N100, N97, N150, i3-N300 and i3-N305. N300 / N305 configurations have higher power and thermal requirements, and CoreIPC recommends confirming the actual operating environment and cooling conditions before ordering.

Platform Model	Processor / Notes
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® Core™ i3-N300, 8 cores, up to 3.8 GHz. Confirm thermal environment before ordering.
NUC32R-N22-N305	Intel® Core™ i3-N305, 8 cores, up to 3.8 GHz. Confirm thermal environment before ordering.

6. COM Port Configuration

Port / Mode	Description
COM1	DB9 serial port; RS232 pin definition provided in the source manual.
COM2	DB9 serial port; RS232 pin definition provided in the source manual.
RS485	The source manual provides an RS485 pin definition for COM1/COM2.
Connector	Standard DB9 connector.
Note	The source manual does not state a default RS232/RS485 selection method; confirm required serial mode before ordering.

7. Power, Cooling and Reliability Functions

Item	Description
Main Power	12 V DC input.
DC Jack	5.5 mm outer diameter / 2.5 mm inner diameter.
Power Adapter	Standard 12 V / 5 A, 60 W AC-DC adapter.
Power-on Mode	Power button by default; power-on after AC recovery configurable.
Cooling	Fanless passive chassis cooling.
Chassis Design	Finned enclosure for passive heat dissipation; no moving fan.

8. Mechanical and Environmental Information

Item	Description
Dimensions	163.45 x 126 x 53 mm.
Installation	Wall-mount supported.
Operating Temperature	-20°C to 50°C.
Storage Temperature	-30°C to 70°C.
Operating Humidity	5%-95% RH, non-condensing.
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.

9. Ordering Information

Item	Available Options
Processor	J6412 / N100 / N97 / N150 / i3-N300 / i3-N305.
Memory	4 GB / 8 GB / 16 GB / 32 GB.
Storage	64 GB / 128 GB / 256 GB / 512 GB.
Wireless	Wi-Fi / Bluetooth / 4G / GPS options.
Package Contents	1 x chassis/system, 1 x power adapter, 1 x power cord, 1 x screw pack.
Thermal Note	For N300 / N305, confirm actual operating environment and cooling conditions with CoreIPC before ordering.

10. Compliance and Documentation Notes

- Certification and compliance information is not specified in the source manual. Contact CoreIPC for project-specific certification or compliance documentation.
- Network information differs by section. Product Description, product images and the product title show a 4-LAN system with up to four Intel® I226-V Ethernet ports, while the System Configuration table states "Dual Gigabit Ethernet, single LAN optional." This datasheet uses the 4-LAN product description/image as the primary system configuration and flags the conflicting table entry for confirmation.
- The Ordering Information table uses internal platform model names such as NUC62R-N22-J6412 and NUC32R-N22-N100/N97/N150/N300/N305 rather than the NANO200 system name. These platform identifiers are retained as source-derived configuration references.

11. Contact Information

Company	CoreIPC
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Disclaimer: This datasheet was compiled from NANO200 User Manual Issue 1.0. Product configuration, internal motherboard platform, interface functions and optional modules may vary by selected processor and production configuration. Please confirm the final configuration before order placement. All product names, trademarks and registered trademarks are the property of their respective owners.