

CoreIPC

NANO200

Fanless Industrial PC Datasheet

2 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 (Dual-LAN / Dual-COM configuration).

1. Product Overview

The NANO200 is a compact CoreIPC fanless industrial PC designed for stable, continuous operation in industrial and embedded applications. Its passive aluminum chassis has no moving fan and supports dual Gigabit Ethernet, dual COM, six USB ports, HDMI and VGA display, optional Wi-Fi / Bluetooth and 4G / GPS expansion, multiple Intel® processor platforms, and wall-mount installation.

2. Key Features

- Fanless passive cooling chassis for quiet operation and reduced maintenance.
- Supports 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 configurations.
- Memory options: 4 GB / 8 GB / 16 GB / 32 GB; storage options: 64 GB / 128 GB / 256 GB / 512 GB.
- 2 x Gigabit Ethernet ports; single-LAN configuration optional.
- 6 x USB ports: 4 x USB 3.0 + 2 x USB 2.0.
- 2 x DB9 COM ports. 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; standard AC-DC power adapter: 12 V / 5 A, 60 W.
- Power button startup by default; power-on after AC recovery can be configured.
- Compact 163.45 x 126 x 53 mm chassis with wall-mount support; operating environment -20°C to 50°C.

3. Technical Specifications

Category	Specification
Processor Options	Intel® J6412 / N5095 / N5105 / N100 / N97 / N150 / Core™ 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.
Graphics / Display	1 x HDMI + 1 x VGA shown on the dual-LAN chassis configuration.
Ethernet	2 x Gigabit Ethernet; single-LAN option available.
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.
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 configurable.
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 in the system configuration table.
Dimensions	163.45 x 126 x 53 mm.

4. I/O Interface Summary

4.1 Front I/O

Interface	Description
LAN	2 x Gigabit Ethernet.
USB	2 x USB ports.
Display	1 x HDMI + 1 x VGA.
Power	1 x 12 V DC 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 supports a wide range of internal motherboard/processor platforms. The source manual lists J6412, N5095, N5105, N100, N97, N150, i3-N300, i3-N305, i5-4200U, i5-4300U, i7-4600U, i3-5005U, i5-5200U, i5-5300U and i7-5600U. Interface details may vary with the selected internal platform.

Platform Family	Processor Options
Elkhart Lake	J6412
Jasper Lake	N5095 / N5105
Intel N-Series	N100 / N97 / N150 / i3-N300 / i3-N305
Haswell-U	i5-4200U / i5-4300U / i7-4600U
Broadwell-U	i3-5005U / i5-5200U / i5-5300U / i7-5600U
Configuration Note	Internal motherboard, I/O and thermal characteristics vary by selected platform; confirm final configuration before ordering.

6. COM Port Configuration

Port / Mode	Description
COM1	DB9 serial port; RS232 pin definition provided in source manual.
COM2	DB9 serial port; RS232 pin definition provided in source manual.
RS485	Source manual also provides RS485 pin definitions for COM1/COM2.
Default Mode	Not specified in source manual.
Configuration	Confirm required RS232/RS485 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 in system configuration table.
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 / N5095 / N5105 / N100 / N97 / N150 / i3-N300 / i3-N305 / i5-4200U / i5-4300U / i7-4600U / i3-5005U / i5-5200U / i5-5300U / i7-5600U.
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.
Network	Dual Gigabit Ethernet; single-LAN option.
Package Contents	1 x chassis/system, 1 x power adapter, 1 x power cord, 1 x screw pack.

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.
- The source manual identifies this configuration as 2 x Gigabit Ethernet with a single-LAN option, 2 x COM and 6 x USB. Final I/O availability should be confirmed together with the selected internal motherboard platform.
- The COM section provides both RS232 and RS485 pin definitions for COM1/COM2, but does not state the default mode or switching method. Confirm the required serial mode before ordering.

11. Contact Information

Company	CoreIPC
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Disclaimer: This datasheet was compiled from NANO200 User Manual Issue 1.0, Dual-LAN / Dual-COM configuration. 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.