



Q3100 User Manual

Issue 1.0

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Security Guidance

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- 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 Q3100, 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, processor platform, I/O 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 specified storage temperature range of -20°C to 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.

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Ordering Information

System Model	Processor	Memory	Storage	Wireless Options
NUC19D-N22-N2840	Intel® Celeron® N2840	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC19D-N22-J1900	Intel® Celeron® J1900	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC42D-N22-J4125	Intel® Celeron® J4125	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC62D-N22-J6412	Intel® Celeron® J6412	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC54D-N22-4300U	Intel® Core™ i5-4300U	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC54D-N22-4600U	Intel® Core™ i7-4600U	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5005U	Intel® Core™ i3-5005U	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5300U	Intel® Core™ i5-5300U	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC54D-N22-5600U	Intel® Core™ i7-5600U	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N100	Intel® Processor N100	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS
NUC32D-N22-N305	Intel® Processor i3-N305	4GB / 8GB / 16GB	64GB / 128GB / 256GB / 512GB / 1TB SSD	Wi-Fi / BT / 4G / GPS

Note: Q3100 supports multiple internal motherboard and I/O configurations. The supplied source images show different LAN, display and power layouts. Confirm the selected motherboard, LAN count, display outputs, serial mode and wide-voltage option before ordering.

1. Product Description

The Q3100 is a fanless Box PC designed for embedded and industrial applications. It supports Intel® Celeron®, Intel® Core™ and Intel® Processor options and provides a compact platform for industrial and embedded computing.

The main specification lists 6 USB ports, dual Gigabit LAN, 2 COM ports, 1 × HDMI and 1 × VGA. Optional functions include 2 × RS485, Wi-Fi / Bluetooth, 4G, GPS and DC 9-36 V wide-voltage input.

Processor options listed in the supplied source include N2840, J1900, J4125, J6412, i5-4300U, i7-4600U, i3-5005U, i5-5300U, i7-5600U, N100 and i3-N305. Memory options are 4 GB / 8 GB / 16 GB, with SSD options from 64 GB to 1 TB.

The fanless aluminum die-cast chassis measures 165 × 127 × 47 mm and supports desktop or VESA mounting. The specified operating temperature is -10°C to 65°C.

The main features of the Q3100 are as follows:

- Intel® Celeron®, Intel® Core™ and Intel® Processor options
- Fanless Box PC design
- Dual Gigabit LAN in the main specification
- 6 × USB
- 2 × COM; optional 2 × RS485
- 1 × HDMI + 1 × VGA in the main specification
- Optional Wi-Fi / Bluetooth, 4G and GPS
- Memory options: 4 GB / 8 GB / 16 GB
- Storage options: 64 GB / 128 GB / 256 GB / 512 GB / 1 TB SSD
- Windows 7 / Windows 10 / Linux
- DC 12 V input; optional DC 9-36 V wide-voltage input
- Chassis: 165 × 127 × 47 mm; Desktop / VESA Mount

2. Product Images



Q3100 Dual-LAN Configuration

Source image showing dual LAN, VGA, HDMI, USB interfaces and DC power input



Q3100 Dual-LAN / Wide-Voltage Configuration

Source image showing dual LAN, HDMI, VGA, USB interfaces, DC 12 V input and optional 9-36 V wide-voltage input



Alternative Four-LAN Configuration

3. Chassis Specifications

Model	Q3100
Dimensions	165 × 127 × 47 mm
Standard Items	Fanless Box PC chassis; configuration depends on selected internal platform
Optional Items	Wi-Fi / Bluetooth, 4G, GPS, DC 9-36 V wide-voltage input

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4. System Configuration

Configuration	Available Options
Processor / Motherboard	See Ordering Information for source-listed platform options
Memory	4 GB / 8 GB / 16 GB
Storage	64 GB / 128 GB / 256 GB / 512 GB / 1 TB SSD
Network	Dual Gigabit LAN in the main specification
Operating System	Windows 7 / Windows 10 / Linux
I/O Ports	6 × USB; 2 × COM
Display	1 × HDMI + 1 × VGA in the main specification
RS485	Optional 2 × RS485
Wi-Fi	Optional Wi-Fi / Bluetooth
4G / GPS	Optional 4G / GPS
Expansion	Mini PCIe
Power Input	DC 12 V
Wide Voltage	Optional DC 9-36 V input
Cooling	Fanless Design
Operating Environment	-10°C to 65°C; 5%-95% RH, non-condensing
Storage Temperature	-20°C to 70°C
Dimensions / Mounting	165 × 127 × 47 mm; Desktop / VESA Mount

Configuration Note:

The supplied product images represent different Q3100 platform configurations. The main specification lists dual Gigabit LAN with HDMI and VGA, while another supplied image shows four Ethernet ports with HDMI and DisplayPort. Treat these as configuration variants rather than one fixed I/O layout.

5. Interface Details

Main Specification



Configuration-Dependent Variants

Function	Specification	Function	Specification
LAN	Dual Gigabit LAN	USB	6 × USB
Display	1 × HDMI + 1 × VGA	Serial	2 × COM
Power	DC 12 V	RS485	Optional 2 × RS485

Optional Features

Power / Expansion Options

Variant Option /	Description	Variant Option /	Description
Four-LAN Image	4 Ethernet ports shown	Display Variant	HDMI + DisplayPort shown
Wide Voltage	Optional DC 9-36 V	Wireless	Wi-Fi / Bluetooth
Cellular / GPS	Optional 4G / GPS	Expansion	Mini PCIe

6. Wireless / Expansion / Power Options

Optional Wi-Fi / Bluetooth, 4G, GPS and DC 9-36 V wide-voltage input are listed in the supplied source. Mini PCIe is listed as the expansion interface.

Item	Value	Item	Value	Item	Value	Note
Wireless	Wi-Fi / Bluetooth	Cellular	Optional 4G	GPS	Optional	Source-listed options
Power	DC 12 V	Wide Voltage	Optional 9-36 V	Cooling	Fanless	Configuration-dependent
Operating Temp.	-10°C to 65°C	Storage Temp.	-20°C to 70°C	Humidity	5%-95% RH	Non-condensing
Dimensions	165 × 127 × 47 mm	USB	6 × USB	Serial	2 × COM	RS485 optional
LAN	Dual GbE main spec	Display	HDMI + VGA main spec	Expansion	Mini PCIe	4-LAN / DP image variant also shown

Q3100 Configuration Summary

Q3100 Options

- Wi-Fi / Bluetooth
- 4G / GPS
- Mini PCIe
- Optional DC 9-36 V input

7. Mechanical Dimension

Q3100 Dimensions

165 x 127 x 47 mm

Desktop / VESA Mount

Fanless Design

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8. 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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