



Nano-N11

Fanless Mini PC

Technical Support Documentation

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Platform:	Intel® Celeron® J1900 Processor
Classification:	Mini PC

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All product specifications are subject to change without notice.

Table of Contents

- 1. Product Overview**
- 2. Hardware Specifications**
- 3. I/O Interfaces & Connectivity**
- 4. Mechanical Dimensions**
- 5. BIOS Configuration**
- 6. Operating System Installation**
- 7. Expansion Module Installation**
- 8. Mounting Guide**
- 9. Maintenance & Troubleshooting**
- 10. Warranty & Support**
 - Appendix A — Order Information & Accessories

1. Product Overview

The Nano-N11 is a compact fanless mini pc designed for versatile deployment in space-constrained environments. Its fanless design ensures silent, reliable operation suitable for offices, digital signage, and edge computing.

1.1 Key Features

- Fanless Aluminum Design
- Intel® Celeron® J1900 Processor
- Onboard DDR3L 1600 4G
- 1 x MSATA, 1 x 2.5-inch HDD
- 4 x COM Ports
- (2 x COM RS232/RS485 optional)
- Support DIN Mount, VESA Mount,
- Wall Mount ect.

1.2 Target Applications

The Nano-N11 is suitable for Automation, Medical, Transportation, Warehouse, Electric Education etc..

1.3 Package Contents

Verify the following items are included in the package:

Item	Qty	Description
Power Adapter	1	12V 5A / 12V 4A
Power Cord	1	CN, US, UK, EU etc.
VESA Bracket	1	Standard

NOTE: If any item is missing or damaged, contact IWILL Technology support immediately at support@iwilltech.co.uk.

2. Hardware Specifications

Complete technical specifications for the Nano-N11.

SYSTEM	
Model	Nano-N11
Processor	Intel® Celeron® J1900 Processor
Memory	Onboard DDR3L 1600 4G RAM onboard 2G/8G optional
BIOS	AMI UEFI BIOS
Graphics	Intel® HD Graphics
Display Ports	Support synchronous/asynchronous 2 display 1 x HDMI 1 x MSATA
Storage	1 x 2.5-inch HDD 1 x Mini PCIe (support MSATA, 3G/4G/SIM optional)
Expansion	1 x Mini PCIe (WiFi/Bluetooth/3G/4G optional)
Ethernet	2 x Intel i211-AT 1000Mbps LAN Ports
OS Support	Windows 7, Windows 8, Windows 10, Linux
I/O PORTS	
Ports	4 x USB 2.0 2 x COM Ports 1 x DC-In 1 x VGA 1 x HDMI 1 x USB 3.0 2 x LAN Ports 1 x SIM Card Slot 1 x Audio (support Mic and speaker at the same time) 2 x COM Ports RS232/RS485 optional 1 x 10 PIN Phoenix Terminal 4 x Input 4 x Output GPIO
POWER & OTHER	
Power Input	DC 12V
ENVIRONMENT	
Operating Temp.	0■ ~ 50■ (Commercial HDD), -20■ ~ 60■ (Industrial SSD), surface air flow
Humidity	0% ~ 95% (non-condensing)
Certifications	CE, CCC, FCC Class A, RoHS
MECHANICAL	
Dimensions	148 x 125 x 58 mm
Weight	1.0 kg

3. I/O Interfaces & Connectivity

3.1 Front Io

Connector	Description
4	4 × USB 2.0
2	2 × COM Ports
1	1 × DC-In
1	1 × VGA
1	1 × HDMI
1	1 × USB 3.0

3.2 Rear Io

Connector	Description
2	2 × LAN Ports
1	1 × SIM Card Slot
1	1 × Audio (support Mic and speaker at the same time)
2	2 × COM Ports RS232/RS485 optional
1	1 × 10 PIN Phoenix Terminal 4 × Input 4 × Output GPIO

Ethernet / LAN

- 2 × Intel i211-AT 1000Mbps LAN Ports

WARNING: Always power off the unit and disconnect all power sources before connecting or disconnecting any internal components.

4. Mechanical Dimensions

All dimensions are in millimeters (mm).

Parameter	Value
Overall Dimensions	148 x 125 x 58 mm
Weight	1.0 kg

NOTE: For detailed technical drawings with mounting hole positions, contact IWILL Technology at support@iwilltech.co.uk.

5. BIOS Configuration

The Nano-N11 uses AMI UEFI BIOS. Access the BIOS setup by pressing **DEL** or **F2** during the POST screen at boot.

5.1 Entering BIOS Setup

1. Connect a USB keyboard to the unit.
2. Power on the system.
3. Press **DEL** or **F2** repeatedly as the splash screen appears.
4. The AMI UEFI BIOS setup utility will load.

5.2 Important BIOS Settings

Setting	Location	Description
Boot Order	Boot Tab	Set primary boot device (SSD, USB, PXE)
Power On After Power Loss	Advanced > ACPI	Set to [Power On] for automatic startup on power restoration
Wake-on-LAN	Advanced > Network	Enable for remote wake capability over LAN

NOTE: BIOS menu paths may vary between firmware revisions. If a setting is not found, check adjacent menus or consult IWILL Technology support.

5.3 BIOS Reset

Method 1 (Keyboard): Enter BIOS setup and press **F9** to load optimized defaults, then **F10** to save and exit.

Method 2 (CMOS Reset): Power off, disconnect power, open the chassis, locate the CMOS clear jumper on the motherboard, short for 5 seconds, then remove.

6. Operating System Installation

6.1 Supported Operating Systems

OS	Notes
Windows 7	64-bit, legacy support
Windows 8/8.1	64-bit
Windows 10	64-bit (21H2+). Recommended for most deployments.
Linux	Ubuntu 22.04+, CentOS, or compatible distributions.

6.2 Installation via USB

1. Prepare a bootable USB drive with the desired OS image (use Rufus, balenaEtcher, or dd).
2. Insert the USB drive into an available USB port.
3. Enter BIOS (DEL/F2) and set USB as the first boot device.
4. Save and restart. The OS installer should load from USB.
5. Follow on-screen instructions. Select the internal drive as the install target.
6. After installation, re-enter BIOS and restore the internal drive as primary boot device.

6.3 Driver Installation

Windows 10/11 should automatically detect most hardware via Windows Update. For chipset, graphics, and LAN drivers, download the latest versions from Intel's support site or contact IWILL Technology for the driver package.

7. Expansion Module Installation

7.1 Available Expansion Slots

- 1 x Mini PCIe (WiFi/Bluetooth/3G/4G optional)

7.2 Installation Procedure

1. Power off and disconnect all power sources.
2. Remove the chassis access panel screws.
3. Locate the target expansion slot on the motherboard.
4. Insert the module at a 30° angle and press down until it clicks into the retaining clip.
5. If applicable, connect antenna pigtail cables to the module's U.FL connectors.
6. Replace the access panel and secure with screws.

WARNING: Always use ESD protection (grounding strap) when handling internal expansion modules. Static discharge can permanently damage components.

7.3 Storage Installation

- 1 x 2.5-inch HDD
- 1 x Mini PCIe (support MSATA, 3G/4G/SIM optional)

8. Mounting Guide

8.1 VESA / Desktop Mounting

The Nano-N11 supports VESA mounting (check rear panel for mounting hole pattern). Use M3 or M4 screws as appropriate — do not exceed the maximum thread depth.

WARNING: Ensure adequate ventilation around the unit. Do not block the heatsink fins or ventilation openings.

9. Maintenance & Troubleshooting

9.1 Routine Maintenance

- **Heatsink Cleaning:** Periodically blow out dust from the heatsink fins using compressed air.
- **Connector Inspection:** Check connectors for damage or corrosion, especially in harsh environments.
- **Firmware Updates:** Check with IWILL Technology for BIOS updates that may improve stability.

9.2 Troubleshooting Guide

Symptom	Possible Cause	Solution
No power / no LED	Power adapter disconnected or faulty	Verify DC input voltage. Try a different adapter.
No display output	Display cable loose or BIOS setting	Reseat display cable. Check BIOS display settings.
System freezes	Memory or storage issue	Reseat RAM. Test with known-good SSD. Enable watchdog.
Overheating	Blocked heatsink or high ambient temp	Clean heatsink. Ensure adequate airflow.
Boot loop	Corrupted BIOS or OS	Reset BIOS to defaults (F9). Reinstall OS.

10. Warranty & Support

10.1 Warranty Coverage

The Nano-N11 is covered by a standard manufacturer warranty. The warranty covers defects in materials and workmanship under normal use conditions. It does not cover damage from misuse, unauthorized modifications, or exposure beyond rated specifications.

10.2 Technical Support

IWILL Technology provides worldwide technical support through regional offices:

Region	Website	Email
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10.3 RMA Process

To initiate a return for repair or replacement, contact IWILL Technology support at the regional office nearest to your location with your product serial number and a description of the issue.

Appendix A — Order Information & Accessories

A.1 Order Configurations

Configuration	Description
Nano-N11 CPU Specification	Nano-N11 CPU Specification
Configuration Intel® Celeron® J1900 Stan	Configuration Intel® Celeron® J1900 Standard Port

A.2 Included Accessories

Item	Qty	Specification
Power Adapter	1	12V 5A / 12V 4A
Power Cord	1	CN, US, UK, EU etc.
VESA Bracket	1	Standard

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