



Manuals.plus /

› NovaNic /

› User Manual for NovaNic Desktop Motherboard N1996

## NovaNic N1996

# User Manual

## NOVANIC DESKTOP MOTHERBOARD N1996

Model: N1996 | Brand: NovaNic

### 1. Introduction

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your NovaNic Desktop Motherboard, model N1996. This motherboard is designed to support AM2 processors and DDR2 RAM, offering a reliable foundation for your personal computer system. Please read this manual thoroughly before proceeding with installation to ensure proper setup and safe operation.

### 2. Safety Information

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Always observe the following safety precautions when handling and installing the motherboard:

- **Static Electricity:** Electronic components are sensitive to electrostatic discharge (ESD). Always use an anti-static wrist strap or frequently touch a grounded metal object before handling the motherboard.
- **Power Disconnection:** Ensure the computer's power supply is unplugged from the wall outlet before installing or removing any components.
- **Component Compatibility:** Verify that all components (CPU, RAM, power supply) are compatible with this motherboard model (N1996).
- **Proper Ventilation:** Ensure adequate airflow within the computer case to prevent overheating.
- **Handle with Care:** Hold the motherboard by its edges to avoid touching sensitive components or circuits.

### 3. Package Contents

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Please check the package contents upon opening. If any items are missing or damaged, contact your retailer immediately.

- NovaNic Desktop Motherboard N1996
- I/O Shield
- SATA Data Cable(s) (quantity may vary)

- User Manual (this document)
- Driver CD/DVD (or link to driver download)

## 4. Product Overview

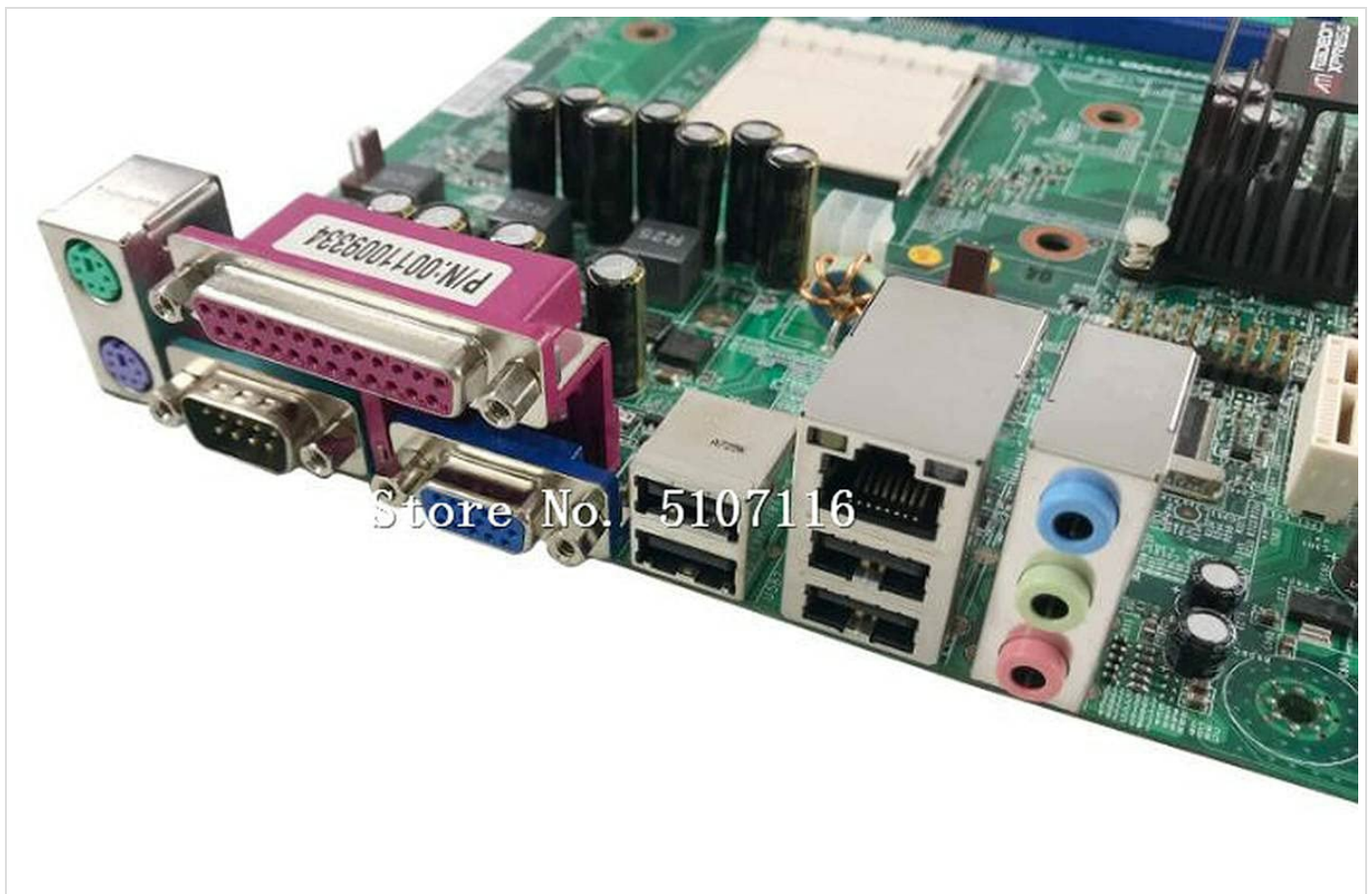
The NovaNic N1996 motherboard is designed for desktop personal computers, featuring a Socket AM2 CPU socket and support for DDR2 RAM. Below are visual representations and descriptions of the motherboard's key areas.



Figure 4.1: Top-down view of the NovaNic N1996 Desktop Motherboard, showing the CPU socket, RAM slots, and various expansion slots.



**Figure 4.2:** Angled perspective of the NovaNic N1996 Motherboard, highlighting the layout of components and connectors.



**Figure 4.3:** Detailed view of the rear Input/Output (I/O) panel, including PS/2 ports, serial port, VGA, USB, LAN, and audio jacks.



Figure 4.4: Rear view of the NovaNic N1996 Motherboard, showing the solder points and circuit traces.

### Key Components:

- **CPU Socket (AM2):** Supports compatible AMD processors.
- **DDR2 DIMM Slots:** For installing DDR2 memory modules.
- **PCI/PCIe Slots:** For expansion cards such as graphics cards, network cards, etc.
- **SATA Ports:** For connecting storage devices like hard drives and SSDs.
- **Rear I/O Panel:** Provides connectivity for peripherals (USB, LAN, Audio, Video).

## 5. Setup and Installation

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Follow these steps carefully to install your NovaNic N1996 motherboard and associated components.

1. **Prepare the Case:** Ensure your computer case is ready for motherboard installation. Install standoffs in the correct positions.
2. **Install I/O Shield:** Snap the I/O shield into the corresponding opening in your computer case.
3. **Install CPU:**
  - Open the CPU socket lever.
  - Carefully align the CPU with the socket, ensuring the triangle/arrow on the CPU matches the one on the socket.
  - Gently lower the CPU into the socket. Do not force it.
  - Close the CPU socket lever to secure the CPU.
4. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and install the CPU cooler according to its manufacturer's instructions. Connect the CPU fan cable to the CPU\_FAN header on the motherboard.
5. **Install RAM:**
  - Open the clips on the DDR2 DIMM slots.
  - Align the notch on the RAM module with the key in the DIMM slot.

- Press down firmly on both ends of the RAM module until the clips snap into place.
6. **Mount Motherboard:** Carefully place the motherboard into the case, aligning the screw holes with the standoffs. Secure the motherboard with screws.
  7. **Connect Power:** Connect the 24-pin ATX power connector and the 4-pin/8-pin CPU power connector from your power supply to the motherboard.
  8. **Connect Front Panel Cables:** Connect the power button, reset button, HDD LED, power LED, and front USB/audio cables to their respective headers on the motherboard. Refer to the motherboard's silkscreen labels for correct pin assignments.
  9. **Install Expansion Cards:** Insert any necessary expansion cards (e.g., graphics card) into the appropriate PCI or PCIe slots and secure them.
  10. **Connect Storage Devices:** Connect SATA data cables from your storage drives to the SATA ports on the motherboard.

## 6. Operating Instructions

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Once all components are installed and connected, you can proceed with initial power-on and operating system installation.

- **First Boot:** Connect a monitor, keyboard, and mouse. Plug in the power supply and turn on the computer.
- **BIOS/UEFI Setup:** During startup, press the designated key (commonly Del, F2, F10, or F12) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other hardware settings.
- **Operating System Installation:** Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred OS (e.g., Windows 10).
- **Driver Installation:** After OS installation, install the necessary drivers for the motherboard's chipset, audio, LAN, and any integrated graphics. These can typically be found on the included driver CD/DVD or downloaded from the NovaNic support website.

## 7. Maintenance

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Regular maintenance helps ensure the longevity and optimal performance of your motherboard.

- **Dust Removal:** Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the NovaNic support website for BIOS updates. BIOS updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid damaging the motherboard.
- **Driver Updates:** Keep your system drivers updated to ensure compatibility and optimal performance with your operating system and peripherals.

## 8. Troubleshooting

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If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause / Solution
No Power / System Does Not Turn On	<p>Check power supply connections (24-pin ATX, 4/8-pin CPU).</p> <p>Ensure power supply switch is ON.</p> <p>Verify front panel power button connection to motherboard.</p> <p>Test power supply with another system or a PSU tester.</p>
No Display Output	<p>Ensure monitor is connected and turned on.</p> <p>Reseat graphics card (if applicable) or try integrated graphics.</p> <p>Reseat RAM modules. Try one RAM stick at a time.</p> <p>Check CPU installation and cooler connection.</p>
System Freezes / Crashes	<p>Check for overheating (CPU, GPU, Chipset). Ensure proper cooling.</p> <p>Run memory diagnostic tools to check RAM integrity.</p> <p>Update drivers (chipset, graphics).</p> <p>Check hard drive health.</p>
Peripheral Not Detected	<p>Try a different USB port or expansion slot.</p> <p>Install/update drivers for the peripheral.</p> <p>Check BIOS settings for port enablement.</p>

For more complex issues, consult the NovaNic support website or contact technical support.

## 9. Specifications

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Detailed technical specifications for the NovaNic N1996 Desktop Motherboard:

Feature	Detail
Model Name	N1996
Manufacturer	NovaNic
ASIN	B09GMR3CV9
CPU Socket	Socket AM2
Compatible Processors	Socket AM2
RAM Memory Technology	DDR2
Memory Clock Speed	2133 MHz
Memory Storage Capacity (Max)	8 GB
Chipset Type	AMD 780V/970
Compatible Devices	Personal Computer
Platform	Windows 10
Date First Available	September 18, 2021

## 10. Warranty and Support

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NovaNic products are manufactured to high quality standards. For warranty information, please refer to the warranty card included with your product or visit the official NovaNic website. For technical assistance, driver downloads, or further inquiries, please visit the NovaNic support portal or contact their customer service.

**Manufacturer:** NovaNic

*Please note: Warranty terms and support availability may vary by region.*