HP 513426-001

HP M2n68-la (Narra5) Asus Motherboard Instruction Manual

Model: 513426-001

1. Overview

This manual provides essential information for the installation, operation, and maintenance of the HP M2n68-la (Narra5) Asus Motherboard, part number 513426-001. This motherboard is designed for HP Compaq Presario CQ5000 Desktop systems.
Key features of this motherboard include:

- Motherboard name: Pegatron M2N68-LA REV 5.00 Motherboard
- HP/Compaq name: Narra5-GL6 513426-001
- CPU Type Socket AM2+
- NVIDIA GeForce 6150SE nForce 430 Chipset

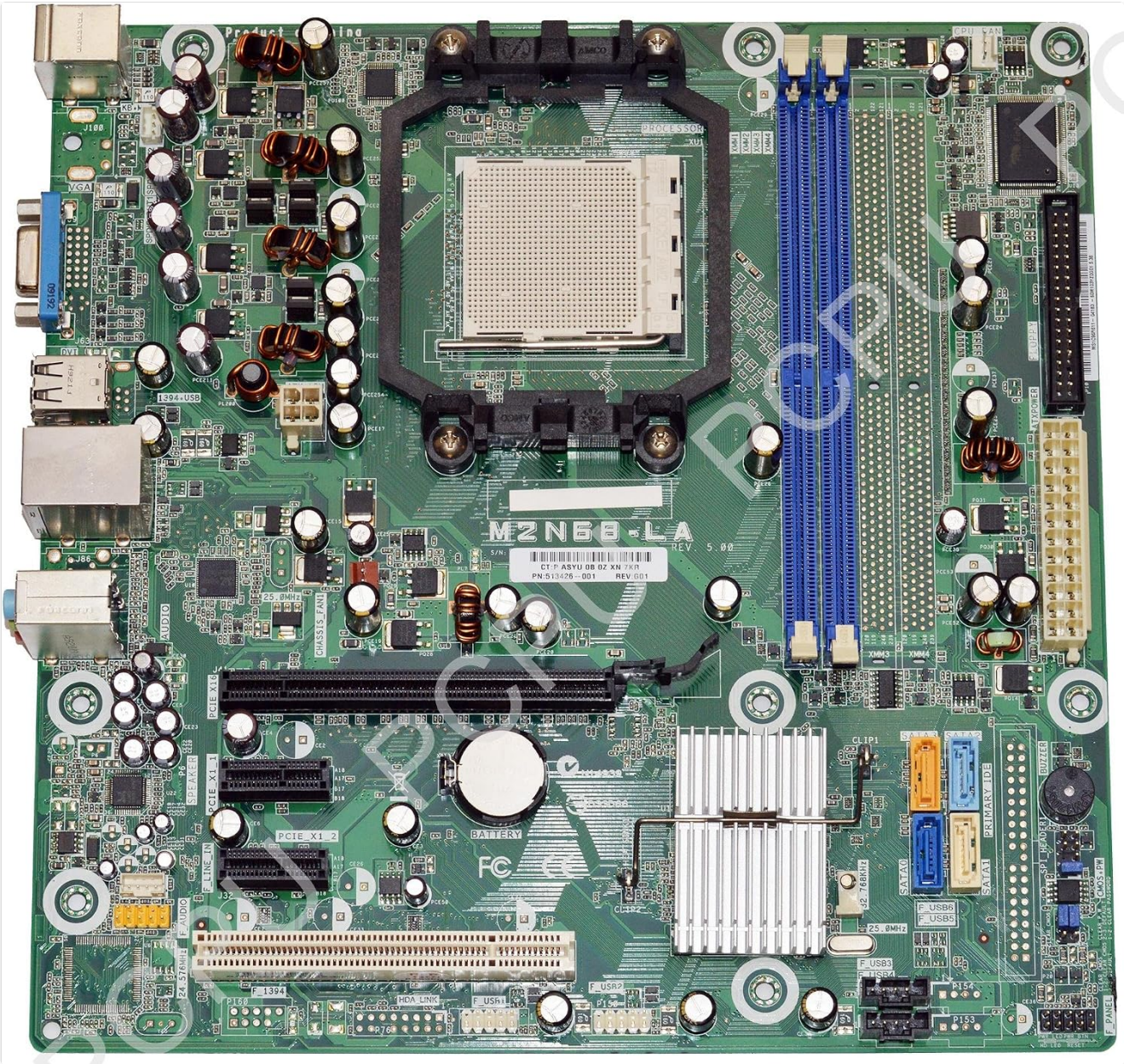


Figure 1: HP M2n68-la (Narra5) Asus Motherboard. This top-down view displays the green PCB with various components. The AM2+ CPU socket is prominently featured at the top center. To its right are two blue DDR2 RAM slots. Below the CPU socket, PCIe x16 and PCIe x1 slots are visible. The left side of the board includes I/O ports such as VGA. Other visible elements include the CMOS battery, various capacitors, inductors, and connectors for front panel, USB, audio, and SATA devices.

2. Setup and Installation

Proper installation is crucial for the functionality and longevity of your motherboard. Always ensure your system is powered off and unplugged before beginning any installation or maintenance.

2.1 Pre-installation Checklist

- Ensure compatibility with your existing components (CPU, RAM, power supply, case).
- Gather necessary tools: Phillips head screwdriver, anti-static wrist strap.
- Prepare a clean, static-free workspace.

2.2 Installation Steps

1. **Prepare the Case:** Install standoffs in your computer case according to the motherboard's mounting holes.
2. **Install CPU:** Carefully open the CPU socket (AM2+), align the CPU with the socket's notch, and gently place it in. Close the retention lever to secure the CPU.

3. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and install the CPU cooler according to its instructions. Connect the CPU fan cable to the 'CPU FAN' header on the motherboard.
4. **Install RAM:** Open the clips on the two DDR2 RAM slots. Align your DDR2 memory modules with the slots and press firmly until the clips snap into place.
5. **Mount Motherboard:** Carefully place the motherboard into the case, aligning it with the standoffs. Secure it with screws.
6. **Connect Power Supply:** Connect the main 24-pin ATX power connector and the 4-pin CPU power connector from your power supply to the corresponding ports on the motherboard.
7. **Connect Storage Devices:** Connect SATA data cables from your hard drives/SSDs to the SATA ports on the motherboard. Connect power cables from the power supply to the drives.
8. **Connect Front Panel Cables:** Connect the power button, reset button, HDD LED, power LED, and front USB/audio headers from your case to the corresponding pins on the motherboard (refer to your case manual for specific pinouts).
9. **Install Expansion Cards:** If applicable, install any PCIe expansion cards (e.g., graphics card) into the appropriate PCIe slots and secure them.

3. Operating Instructions

Once the motherboard and all components are installed, you can proceed with initial system boot-up.

3.1 First Boot

After connecting all peripherals (monitor, keyboard, mouse) and power, press the power button on your computer case. The system should power on and display the BIOS/UEFI splash screen.

3.2 BIOS/UEFI Access

To enter the BIOS/UEFI setup utility, typically press the**DEL** or **F2** key repeatedly during the initial boot sequence. Consult your system's documentation for the exact key.

3.3 Operating System Installation

This motherboard is compatible with various operating systems, including**Windows 10**. Follow the standard installation procedures for your chosen operating system. Ensure all necessary drivers for the NVIDIA GeForce 6150SE nForce 430 Chipset are installed for optimal performance.

4. Maintenance

Regular maintenance helps ensure the longevity and stable operation 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.
- **Cable Management:** Ensure internal cables are neatly routed to promote good airflow and prevent obstruction of components.
- **BIOS Updates:** Check the HP support website for any available BIOS updates. Only update the BIOS if necessary and follow the instructions precisely to avoid system instability.
- **Component Checks:** Occasionally inspect connections for looseness or corrosion.

5. Troubleshooting

This section provides guidance for common issues you might encounter.

5.1 No Power / No Boot

- Verify all power cables (24-pin ATX, 4-pin CPU) are securely connected to the motherboard.
- Ensure the power supply is functioning correctly.
- Check front panel power switch connection to the motherboard.

5.2 No Display

- Ensure the monitor is connected to the correct video output (VGA port on the motherboard or a dedicated graphics card).
- Reseat RAM modules. Incorrectly seated RAM is a common cause of no display.
- If using a dedicated graphics card, ensure it is properly seated in its PCIe slot and has adequate power.

5.3 System Instability / Crashes

- Check for overheating. Ensure CPU cooler is properly installed and fans are spinning.
- Run memory diagnostic tools to check for faulty RAM.
- Ensure all drivers, especially chipset drivers, are up to date.

Note: As this product may be sold in a used condition, some issues might stem from prior usage. If troubleshooting steps do not resolve the issue, consider professional diagnosis.

6. Specifications

Feature	Specification
Motherboard Model Name	M2N68-LA (Narra5)
HP Part Number	513426-001
CPU Socket	Socket AM2+
Compatible Processors	Socket AM2+ Processors (e.g., Athlon)
Chipset Type	NVIDIA GeForce 6150SE nForce 430
RAM Memory Technology	DDR2
RAM Memory Slots	2
Maximum Memory Storage Capacity	4 GB
Compatible Devices	Personal Computer
Platform	Windows 10
Item Weight	14.1 ounces
Package Dimensions	11.1 x 10.7 x 2.9 inches

7. Warranty and Support

As this motherboard is often sold in a used condition, original manufacturer warranty may no longer apply. Please refer to the seller's return policy or any extended protection plans purchased at the time of sale for coverage details. For technical support related to drivers or general HP system compatibility, you may visit the official HP support

website or contact HP customer service. Ensure you have your system's full model number and serial number ready for assistance.

HP Support Website: www.hp.com/support

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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